Scientific & Technical Information Center
USPTO

STIC Search Report
EIC 3600

STIC Database Tracking Number: 103455

TO: Karmis Stefanos
Location:PK5-7X12
Art Unit: 3624
Thursday, September 11, 2003

Case Serial Number: 09/502490

From: Elizabeth Deal ED
Location: EIC 3600
PK5-Suite 804
Phone: 305-5783

elizabeth.deal@uspto.gov

Search Notes

Dear Karmis,

Attached are the results of the above-referenced search. If you have any questions or comments, please feel free to contact me.

Libby

sira
Search and Information Resources Administration

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File  35:Dissertation Abs Online 1861-2003/Aug
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File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
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File 233:Internet & Personal Comp. Abs. 1981-2003/Jul
         (c) 2003, EBSCO Pub.
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         (c)2003 Japan Science and Tech Corp(JST)
File   6:NTIS 1964-2003/Sep W1
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         (c) 1998 Inst for Sci Info
File  34:SciSearch(R) Cited Ref Sci 1990-2003/Sep W1
         (c) 2003 Inst for Sci Info

Set     Items   Description
S1      38424   DATA()SIGNAL? ? OR DIGITAL()(CODE? ?  OR MESSAGE? ? OR DATA
              OR INFORMATION) OR EDP
S2    6954137   CONVERT? OR CONVERSION OR TRANSFORM? OR MODIF? OR TRANSPOS?
              OR CHANG? OR TRANSMUT? OR METAMORPHOS?
S3      82370   FLIGHT? ?(2N)(SCHEDULE? ? OR TIME OR TIMEFRAME? OR TIMETAB-
              LE? OR TIMING OR GATE OR NUMBER? ? OR ARRIV? OR DEPART? OR TA-
              KEOFF? OR LANDING? OR (GET OR GETTING)()(HERE OR THERE) OR DA-
              TA OR INFORMATION OR PARTICULARS OR DETAILS)
S4     661398   DATA()(BASE OR BASES OR BANK? ? OR SYSTEM? OR NETWORK?) OR
              DATABASE OR DATABANK OR OODB OR ARCHIV? OR REPOSITOR? OR DBMS
              OR RDBMS OR MAPPER? ?
S5          4   (S1(2N)S2) AND S3 AND S4
S6          3   S1 AND (S2(5N)S4) AND S3
S7          2   ((S1 AND S2 AND S3 AND S4) NOT (S5 OR S6)) NOT PY>1997
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5/TI,PY,AA,AN/1 (Item 1 from file: 583)
DIALOG(R)File 583:(c) 2002 The Gale Group. All rts. reserv.

05984541
Now they're talking real phone service
UK: INTERACTIVE TELEPHONES SERVICES PLANNED

1994

5/TI,PY,AA,AN/2 (Item 1 from file: 6)
DIALOG(R)File 6:(c) 2003 NTIS, Intl Cpyrght All Rights Res. All rts. reserv.

NTIS Accession Number: N89-17424/7
Data Acquisition and Storage System for the Ion Auxiliary Propulsion System Cyclic Thruster Test
Feb 89

5/TI,PY,AA,AN/3 (Item 2 from file: 6)
DIALOG(R)File 6:(c) 2003 NTIS, Intl Cpyrght All Rights Res. All rts. reserv.

NTIS Accession Number: AD-671 662/XAB
In-Flight Measurement of Rotor Blade Airloads, Bending Moments, and Motions, Together with Rotor Shaft Loads and Fuselage Vibration, on a Tandem Rotor Helicopter. Volume III. Data Processing and Analysis System
(Final rept)
Nov 67

5/TI,PY,AA,AN/4 (Item 1 from file: 34)
DIALOG(R)File 34:(c) 2003 Inst for Sci Info. All rts. reserv.

08722613
Title: Determination of surface reflectance from raw hyperspectral data without simultaneous ground data measurements: a case study of the GER 63-channel sensor data acquired over Naan, Israel
, 2000

5/3,K/3 (Item 2 from file: 6)
DIALOG(R)File 6:NTIS
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0147493 NTIS Accession Number: AD-671 662/XAB
In-Flight Measurement of Rotor Blade Airloads, Bending Moments, and Motions, Together with Rotor Shaft Loads and Fuselage Vibration, on a Tandem Rotor Helicopter. Volume III. Data Processing and Analysis System
(Final rept)
Obbard, J. W.
Boeing Co Morton Pa Vertol Div
Corp. Source Codes: 365150
Report No.: D8-0382-3; USAAVLABS-TR-67-9C
Nov 67 119p
Journal Announcement: USGRDR6817
See also Volume 2, AD-671 661 and Volume 4, AD-671 664.
Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.
NTIS Prices: PC A06/MF A01

... fuselage vibration. The voluminous output of this extensive instrumentation was processed by a fully automated **data system** which is described in the volume. Data were tape-recorded in sequenced-multiplexed, frequency-modulated...

... discriminated to analog form and were digitized by using a high-speed analog-to-digital **converter**. **Digital data** were calibrated, corrected for temperature and load interactions, and harmonically analyzed by using a series...

... pitching moment of the entire rotor blade. Data were also prepared for other analyses. The **data system** also included various data checks which are discussed. Substantiating tests and analyses that were performed...
Descriptors: Helicopter rotors; *Aerodynamic loading; **Data** processing systems; **Flight** testing; Rotor blades(Rotary wings); Helicopters; Bending ; Moments; Aeroelasticity; Fuselages; Vibration; Analog-to-digital converters...

6/TI/1 (Item 1 from file: 583)
DIALOG(R)File 583:(c) 2002 The Gale Group. All rts. reserv.

Now they're talking real phone service
UK: INTERACTIVE TELEPHONES SERVICES PLANNED

6/TI/2 (Item 1 from file: 2)
DIALOG(R)File 2:(c) 2003 Institution of Electrical Engineers. All rts. reserv.

Title: A large capacity, high-speed multiparameter multichannel analysis system

6/TI/3 (Item 2 from file: 2)
DIALOG(R)File 2:(c) 2003 Institution of Electrical Engineers. All rts. reserv.

Title: A large capacity, high-speed multiparameter multichannel analysis system

6/3,K/1 (Item 1 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
(c) 2002 The Gale Group. All rts. reserv.

05984541
Now they're talking real phone service
UK: INTERACTIVE TELEPHONES SERVICES PLANNED
Independent on Sunday (TIS) 08 May 1994 p.B7
Language: ENGLISH

...talk naturally over the phone to get information which the computer will extract from a **database** . Speech is **converted** into **digital code** , the sounds are analysed by the computer, the information selected and then converted via text...

... a variety of interactive services, at Heathrow BA staff are already using Callserver to extract **flight information** . Callserver was developed by a company, Vocalis, that specialises in speech recognition and is also...

6/3,K/2 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2003 Institution of Electrical Engineers. All rts. reserv.

01970200 INSPEC Abstract Number: A83001188, B83004519, C83001422
Title: A large capacity, high-speed multiparameter multichannel analysis system
Author(s): Hendricks, R.W.; Seeger, P.A.; Scheer, J.W.; Suehiro, S.
Author Affiliation: Metals & Ceramics Div., Oak Ridge Nat. Lab., Oak Ridge, TN, USA
Journal: Nuclear Instruments and Methods in Physics Research vol.201, no.1 p.261-79
Publication Date: 1 Oct. 1982 Country of Publication: Netherlands
CODEN: NIMRD9 ISSN: 0167-5087
Conference Title: Proceedings of the International Conference on X-Ray Detectors for Synchrotron Radiation
Conference Date: 17-21 Nov. 1980 Conference Location: Hamburg, West Germany
Language: English
Subfile: A B C

Abstract: A data acquisition system for recording multiparameter **digital data** into a large memory array at over 2.5 MHz is described. The system consists...
... detectors at conventional and synchrotron X-ray sources as well as for fixed energy and **time** -of- **flight** diffraction at continuous and pulsed neutron sources. Modules which have been developed to date include a buffer for two-dimensional position-sensitive detectors, a **mapper** for high-speed coordinate **transformations** , a buffered **time** -of- **flight** clock, a **time** -correlator for synchronized diffraction experiments, and a display unit for data bus diagnostics.
...Identifiers: **time** -of- **flight** diffraction...

...buffered **time** -of- **flight** clock

7/3,K/1 (Item 1 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)
(c) 2003 Elsevier Eng. Info. Inc. All rts. reserv.

02826822 E.I. Monthly No: EI8912125627
Title: Langley Advanced Real-Time Simulation (ARTS) system.
Author: Crawford, Daniel J.; Cleveland, Jeff I. II
Corporate Source: NASA Langley Research Cent, Hampton, VA, USA
Source: Journal of Aircraft v 25 n 2 Feb 1988 p 170-177
Publication Year: 1988
CODEN: JAIRAM ISSN: 0021-8669
Language: English

Abstract: A system of high-speed **digital data networks** was developed and installed to support real **time flight** simulation at the NASA Langley Research Center. This system, unlike its predecessor, employs intelligence at each network node and uses distributed 10-V signal **conversion** equipment rather than centralized 100-V equipment. A network switch, which replaces an elaborate system....
Identifiers: REAL **TIME FLIGHT** SIMULATION; CAMAC

7/3,K/2 (Item 1 from file: 6)
DIALOG(R)File 6:NTIS
(c) 2003 NTIS, Intl Cpyrght All Rights Res. All rts. reserv.

1231421 NTIS Accession Number: AD-A164 367/5
Evaluation of a Frequency Response Technique for Aircraft System Identification
(Final rept. Feb 84-Oct 85)
Reed, A. T.
Air Force Inst. of Tech., Wright-Patterson AFB, OH. School of Engineering.
Corp. Source Codes: 000805002; 012225
Report No.: AFIT/GAE/AA/85J-2
31 Oct 85 108p
Languages: English Document Type: Thesis
Journal Announcement: GRAI8611
Master's thesis.
Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.
NTIS Prices: PC A06/MF A01

This paper presents the results of a project which used frequency analysis methods applied to **flight** test **data** in order to identify aircraft parameters. Computer programs were developed to generate simulated **flight** test **data** so the frequency response programs could be tested using a noise free data source. Once...

... means of reducing noise effects to include anti-aliasing filters and noise processing schemes for **digital data** . (Theses)
Descriptors: Aircraft; *Frequency response; *Identification; Computer programs; Contamination; **Data bases** ; Density; Digital systems; Experimental **data** ; **Flight** simulation; **Flight** testing; Functions(Mathematics); Noise; Parameters; Pilots; Power spectra; Processing; Schools; Simulation; Sources; Spectra; Spectral energy distribution; Theses; Fourier **transformation**

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STN

 FILE 'CONFSCI, COMPUAB, COMPUSCIENCE, ELCOM, FEDRIP, INFODATA' ENTERED AT
     10:05:52 ON 11 SEP 2003
L1          1261 S (SIGNAL# OR DIGITAL()(CODE#  OR MESSAGE# OR DATA OR INFORMATI
L2          2171 S FLIGHT#(3A)(SCHEDULE# OR TIME OR TIMEFRAME? OR TIMETABLE? OR
L3         98958 S DATA()(BASE OR BASES OR BANK# OR SYSTEM? OR NETWORK?) OR DATA
L4             0 S L1 AND L2 AND L3
L5            18 S L1 AND L3
L6            12 S L5 AND PD<=19970220
L7             1 S L1 AND L2
L8            93 S L2(S)L3
L9            39 S L8 AND PD<=19970220
```

EKD 09/11/2003

STN - Conference Papers Index and Investext

L6 ANSWER 1 OF 12 COMPUAB COPYRIGHT 2003 CSA on STN
AN 96:8389 COMPUAB
TI Plug-and-play - not!
AU Pula, Michael; Grzelak, Steven
CS AT&T Bell Lab, Naperville, IL, USA
SO TELEPHONY, (**1996**) vol. 230, no. 2, pp. 28-30.
ISSN: 0040-2656.
DT Journal
FS C
LA English
AB Installing a broadband **data network** is not as simple as just adding pieces of **signal conversion** equipment to an existing system. It's equally important for network providers to look way down the pipe and make sure that the rest of the network can keep up with other new services so that different pieces can evolve together. The putsuit of common architecture and set of protocols will allow both cable TV and telephone companies maximum flexibility when installing broadband **data systems**. Common access protocols will allow operators to mix and match cable modems and network elements from different vendors on the same broadband network. Additionally, the pust towards open specifications offers all network service providers the investment protection they need to upgrade to future generation products.
CC 722. Data Communication (Equipment and Techniques); 722. Digital Computers and Systems; 903. Information Services; 718. Telephone Systems and Equipment; 716. Television Systems and Equipment
UT Broadband networks; Personal computers; Telecommunication links; Modems; Network protocols; Telecommunication services; Information services; Telephone lines; Gateways (computer networks); Telecommunication cables; Information technology; Cable television systems; Hybrid fiber coax; Multi channel multipoint distribution system; Client server; Broadband data solutions

L6 ANSWER 2 OF 12 COMPUAB COPYRIGHT 2003 CSA on STN
AN 96:560 COMPUAB
TI On using a priori segmentation of the speech signal in an N-best solutions post-processing
ICASSP IEEE INT CONF ACOUST SPEECH SIGNAL PROCESS PROC
AU Moudenc, T.; Jouvet, D.; Monne, J.
CS France Telecom - CNET - LAA/TSS/RCP, Lannion, Fr
SO (**1995**) vol. 1, pp. 580-583. IEEE. PISCATAWAY, NJ, (USA).
Meeting Info.: The 1995 20th International Conference on Acoustics, Speech, and Signal Processing. Part 1 (of 5). Detroit, MI, USA. 05/09-12/95.
DT Book
TC Conference
FS C
LA English
AB This paper describes a new method for the post-processing of N-best solutions based on stochastic modelling of the number of speech **signal** stationarity **changes** which occur within the phonetic segments of each solution. The objective of this post-processing is to validate the presence of stationarity zones in the speech signal. This particular validation cannot be exploited using a centisecond approach. The **signal** stationarity **changes** are detected using an 'a priori' segmentation algorithm. Two phonetic models are calculated for each phonetic segment. One corresponds to correct solutions and the other one corresponds to incorrect solutions. These two models are used simultaneously in order to compute a post-processing score for each solution. In the initial set of experiments, which was conducted on

telephone databases, the use of this method resulted in a 9% error rate reduction on the 'Number' **database**, and a 15% error rate reduction on the 'Digit' **database**.
CC 751. Speech; 922. Probability Theory; 921 Applied Mathematics; 718. Telephone Systems and Equipment; 723. Database Systems
UT Random processes; Mathematical models; Algorithms; Telephone systems; **Database** systems; Errors; Computational methods; Statistical methods; A priori segmentation; Speech signal stationarity; N best solutions post processing; Stochastic modelling; Centisecond approach; Phonetic models; Error rate reduction

L6 ANSWER 3 OF 12 COMPUAB COPYRIGHT 2003 CSA on STN
AN 95:3343 COMPUAB
TI Scale specific and robust edge/line encoding with linear combinations of Gabor wavelets
AU Shustorovich, Alexander
CS Eastman Kodak Co, Rochester, NY, USA
SO PATTERN RECOGNIT, (**1994**) vol. 27, no. 5, pp. 713-725.
ISSN: 0031-3203.
DT Journal
FS C
LA English
AB A method of detection of characteristic orientations of local image structure at a specific scale of analysis and at a specific location is described. The technique is almost immune to noise, and it results in a structural description that can be used by higher level image analysis and pattern recognition algorithms. The approach is based on rather unusual properties of two-dimensional Gabor wavelets, namely their ability to model rotated, scaled, and shifted versions of themselves with linear combinations of a discrete basis set. The paper is concluded with the results of a character recognition experiment, in which a simple template-matching procedure based on the structural description achieved 99.5% correct classification on a test from the NIST **database** of pre-segmented digits.
CC 723. Data Processing; 921. Numerical Methods
UT Image analysis; Computer vision; Spurious signal noise; Image coding; Algorithms; Image processing; Mathematical morphology; Estimation; Function evaluation; **Database** systems; Gabor wavelet; Line edge detection; Noise immunity; Feature extraction; Image structure; Structural description; **Signal** to symbol **converter**; Two dimensional

L6 ANSWER 4 OF 12 COMPUAB COPYRIGHT 2003 CSA on STN
AN 90:7617 COMPUAB
TI ATV/NTSC format converters.
AU Bretl, W.
CS Zenith Electronics Corp., Glenview, IL, USA
SO IEEE TRANS. CONSUMER ELECTRON., (**1990**) vol. 36, no. 3, pp. 269-283.
DT Journal
FS C
LA English
SL English
AB Up- and down-converters between Advanced Television (ATV) and NTSC signals will be required for a simulcast service such as SC-HDTV (Spectrum Compatible High Definition Television). Down-conversion from ATV to NTSC is required at the transmitter to provide the simulcast NTSC program. Upconversion is also required to integrate **archival** material into the ATV program, and in the dual purpose ATV receiver which also

receives NTSC programs. Filtering is a major part of the conversion process. The various theoretical and practical requirements for filtering are discussed, an a practical example is presented.
CC CA19 TELEVISION SYSTEMS; CE5. CONVERTERS/CODERS
UT **signal converters**; formatting; high definition television; filtering; televisions; simulcast; ATV/NTSC

L6 ANSWER 5 OF 12 COMPUAB COPYRIGHT 2003 CSA on STN
AN 88:4846 COMPUAB
TI Thesaurus problems and solutions: The language of geology develops steadily.
22. MEETING OF THE GEOSCIENCE INFORMATION SOCIETY.
AU Tahirkheli, S.N.; Eaglesfield, J.T. [editor]
CS Am. Geol. Inst., GeoRef Inf. Syst., 4220 King St., Alexandria, VA 22033, USA
SO (**1988**) vol. 18, pp. 89-94.
Meeting Info.: 22. Meeting of the Geoscience Information Society. Phoenix, AZ (USA). 26-29 Oct 1987.
DT Book
TC Conference
FS C
LA English
SL English
AB Scientific thesauri are developed as the need to interrelate and regularize vocabulary becomes apparent. The original edition of The GeoRef Thesaurus and Guide to Indexing (1977) began as a reflection of established indexing practice. It did not **signal** a **change** in terminology, but reflected a significant step toward control of a steadily growing vocabulary. From 9000 terms in 1977, the Thesaurus, now in its fifth major revision, has grown to more than 15,000 geologic and geographic terms. Additions reflect the growth of the GeoRef file, as well as changes in geologic terminology and the identification of historical variations in indexing practice.
CC CA8. STORAGE/RETRIEVAL/DISSEMINATION; CA15 GEOLOGY
UT geology; indexing; **data bases**; information retrieval; GeoRef; thesaurus

L6 ANSWER 6 OF 12 COMPUAB COPYRIGHT 2003 CSA on STN
AN 86:16013 COMPUAB
TI Submicron proximity correction by the Fourier precompensation method.
ELECTRON-BEAM, X-RAY AND ION-BEAM TECHNIQUES FOR SUBMICROMETER LITHOGRAPHIES V.
AU Haslam, M.E.; McDonald, J.F.; Blais, P.D. [editor]
CS Cent. Integrated Electron., Rensselaer Polytech. Inst., Troy, NY 12180-3590, USA
SO (**1986**) vol. 632, pp. 40-50.
Meeting Info.: 5. Conference on Electron-Beam, X-Ray and Ion-Beam Techniques for Submicrometer Lithographies. Santa Clara, CA (USA). 11-12 Mar 1986.
DT Book
TC Conference
FS C
LA English
SL English
AB The Fourier and Haar transforms have been successfully employed to produce fast, efficient proximity correction calculations for electron beam lithography. The Fourier transform is used in a precompensation operation that generates a nearly exact solution to the proximity problem. The Haar transform is used to thin or reduce the size of the extremely accurate but

large corrected **database** that results. The methodology here constitutes a **signal** processing or **transform** oriented approach to proximity correction. It has the advantage that fast digital hardware is commercially available for making accelerated computations.
CC CA19 ELECTRONIC DEVICES
UT electron beams; lithography; computer aided analysis

L6 ANSWER 7 OF 12 COMPUAB COPYRIGHT 2003 CSA on STN
AN 86:7732 COMPUAB
TI Fully optical switch looms for video.
AU Gallagher, R.T.
CS Electronics, 1221 Ave. Americas, New York, NY 10020, USA
SO ELECTRONICS., (**1986**) vol. 59, no. 6, pp. 19-20.
DT Journal
FS C
LA English
AB Designers of tomorrow's broadband video communications systems may soon have all the tools they need to create optical networks. A team of engineers at Thomson-CSF's Central Research Laboratory is putting the finishing touches on the technology for what could be the last key component: a fully optical switch whose simple design makes it inexpensive to produce. Thomson's Lidos, for liquid dielectric optical switch, will allow designers to take full advantage of an optical signal's original bandwidth. With electrical switches, optical **signals** must be **converted** to electrical form for switching, and then back to optical form for futher transmission, thereby setting limits of usable bandwidth for the original signal. The company expects to find a host of industrial applications for Lidos, such as video telephone, video-program distribution or consultation of video **data banks**.
CC CA19 OPTICAL/IR SYSTEMS
UT optical communications; networks; **signal conversion**; research and development; technology; switches

L6 ANSWER 8 OF 12 COMPUAB COPYRIGHT 2003 CSA on STN
AN 85:6589 COMPUAB
TI BBC's PARTNERBUS--a communication bus linking computers in local area networks.
AU Muheim, J.
CS Sales Dep. Control and Monitoring Prod., BBC Brown Boveri & Co., Ltd., Turgi, Switzerland
SO BROWN BOVERI REV., (**1985**) vol. 72, no. 5, pp. 241-248.
DT Journal
FS C
LA English
SL English
AB BBC's PARTNERBUS is a communication bus linking computers in local process computer networks. Dominant features of this bus are its extremely high availability and data integrity, its highly efficient broadcast data transmission mode with variable block lengths and its selection mechanism. The PARTNERBUS continuously supervises its network configuation, **signals changes** and adapts automatically to new configurations. It permits updating of identical process **data bases** and allows similar programs to be run in parallel on different computers
CC CE3. SPECIAL TYPES OF DIGITAL MACHINES AND SYSTEMS; CA19 DATA TRANSMISSION/FACSIMILE SYSTEMS
UT local area networks; data transmission; distributed systems; buses; communication networks; BBC PARTNERBUS

STN - Conference Papers Index and Investext

L6 ANSWER 9 OF 12 ELCOM COPYRIGHT 2003 CSA on STN
AN 96:256 ELCOM
TI On using a priori segmentation of the speech signal in an N-best solutions post-processing
ICASSP IEEE INT CONF ACOUST SPEECH SIGNAL PROCESS PROC
AU Moudenc, T.; Jouvet, D.; Monne, J.
CS France Telecom - CNET - LAA/TSS/RCP, Lannion, Fr
SO (**1995**) vol. 1, pp. 580-583. IEEE. PISCATAWAY, NJ, (USA).
Meeting Info.: The 1995 20th International Conference on Acoustics, Speech, and Signal Processing. Part 1 (of 5). Detroit, MI, USA. 05/09/95-05/12/95.
DT Book
TC Conference
FS E
LA English
AB This paper describes a new method for the post-processing of N-best solutions based on stochastic modelling of the number of speech **signal** stationarity **changes** which occur within the phonetic segments of each solution. The objective of this post-processing is to validate the presence of stationarity zones in the speech signal. This particular validation cannot be exploited using a centisecond approach. The **signal** stationarity **changes** are detected using an 'a priori' segmentation algorithm. Two phonetic models are calculated for each phonetic segment. One corresponds to correct solutions and the other one corresponds to incorrect solutions. These two models are used simultaneously in order to compute a post-processing score for each solution. In the initial set of experiments, which was conducted on telephone databases, the use of this method resulted in a 9% error rate reduction on the 'Number' **database**, and a 15% error rate reduction on the 'Digit' **database**.
CC 751. Speech; 922. Probability Theory; 921 Applied Mathematics; 718. Telephone Systems and Equipment; 723. Database Systems
UT Random processes; Mathematical models; Algorithms; Telephone systems; **Database** systems; Errors; Computational methods; Statistical methods; A priori segmentation; Speech signal stationarity; N best solutions post processing; Stochastic modelling; Centisecond approach; Phonetic models; Error rate reduction

L6 ANSWER 10 OF 12 ELCOM COPYRIGHT 2003 CSA on STN
AN 90:4261 ELCOM
TI ATV/NTSC format converters.
AU Bretl, W.
CS Zenith Electronics Corp., Glenview, IL, USA
SO IEEE TRANS. CONSUMER ELECTRON., (**1990**) vol. 36, no. 3, pp. 269-283.
DT Journal
FS E
LA English
SL English
AB Up- and down-converters between Advanced Television (ATV) and NTSC signals will be required for a simulcast service such as SC-HDTV (Spectrum Compatible High Definition Television). Down-conversion from ATV to NTSC is required at the transmitter to provide the simulcast NTSC program. Upconversion is also required to integrate **archival** material into the ATV program, and in the dual purpose ATV receiver which also receives NTSC programs. Filtering is a major part of the conversion process. The various theoretical and practical requirements for filtering are discussed, an a practical example is presented.
CC EC01 TELEVISION SYSTEMS; EC4. SIGNAL CONVERTERS, MIXERS

EKD 09/11/2003

STN - Conference Papers Index and Investext

UT **signal converters**; formatting; high definition television; filtering; televisions; simulcast; ATV/NTSC

L6 ANSWER 11 OF 12 ELCOM COPYRIGHT 2003 CSA on STN
AN 86:8418 ELCOM
TI Submicron proximity correction by the Fourier precompensation method. ELECTRON-BEAM, X-RAY AND ION-BEAM TECHNIQUES FOR SUBMICROMETER LITHOGRAPHIES V.
AU Haslam, M.E.; McDonald, J.F.; Blais, P.D. [editor]
CS Cent. Integrated Electron., Rensselaer Polytech. Inst., Troy, NY 12180-3590, USA
SO (**1986**) vol. 632, pp. 40-50.
Meeting Info.: 5. Conference on Electron-Beam, X-Ray and Ion-Beam Techniques for Submicrometer Lithographies. Santa Clara, CA (USA). 11-12 Mar 1986.
DT Book
TC Conference
FS E
LA English
SL English
AB The Fourier and Haar transforms have been successfully employed to produce fast, efficient proximity correction calculations for electron beam lithography. The Fourier transform is used in a precompensation operation that generates a nearly exact solution to the proximity problem. The Haar transform is used to thin or reduce the size of the extremely accurate but large corrected **database** that results. The methodology here constitutes a **signal** processing or **transform** oriented approach to proximity correction. It has the advantage that fast digital hardware is commercially available for making accelerated computations.
CC ED20 FABRICATION TECHNIQUES
UT electron beams; lithography; computer aided analysis

L6 ANSWER 12 OF 12 ELCOM COPYRIGHT 2003 CSA on STN
AN 86:2631 ELCOM
TI Fully optical switch looms for video.
AU Gallagher, R.T.
CS Electronics, 1221 Ave. Americas, New York, NY 10020, USA
SO ELECTRONICS., (**1986**) vol. 59, no. 6, pp. 19-20.
DT Journal
FS E
LA English
AB Designers of tomorrow's broadband video communications systems may soon have all the tools they need to create optical networks. A team of engineers at Thomson-CSF's Central Research Laboratory is putting the finishing touches on the technology for what could be the last key component: a fully optical switch whose simple design makes it inexpensive to produce. Thomson's Lidos, for liquid dielectric optical switch, will allow designers to take full advantage of an optical signal's original bandwidth. With electrical switches, optical **signals** must be **converted** to electrical form for switching, and then back to optical form for futher transmission, thereby setting limits of usable bandwidth for the original signal. The company expects to find a host of industrial applications for Lidos, such as video telephone, video-program distribution or consultation of video **data banks**.
CC EC01 OPTICAL/INFRARED SYSTEMS
UT optical communications; networks; **signal conversion**; research and development; technology; switches

EKD 09/11/2003

STN - Conference Papers Index and Investext

L7 ANSWER 1 OF 1 COMPUSCIENCE COPYRIGHT 2003 FIZ KARLSRUHE on STN
AN 1981(9):PH6774 COMPUSCIENCE
TI Design of microcomputer-based data acquisition system for the time-of-flight ion scattering spectrometer.
AU Lo, H.; Su, C. (National Tsing Hua Univ., Hsinchu (Taiwan). Inst. of Nuclear Engineering)
SO Nucl. Instrum. Methods Phys. Res. (15 Jul 1981) v. 186(3) p. 637-640. ISSN: 0167-5087
DT Journal
CY Netherlands
LA English
IP FIZKA
AB A microcomputer-based data aquisition system used on a time-of-flight ion scattering spectrometer is described. The flight time of 90 -scattered ions from target atom determined directly with a 30 MHz crystal-controlled oscillator and its associated circuit. The ion intensity is detected by a channel multiplier, and its output signal pulse is converted from the analog form into digital form by an ADC. Both flight time and ion intensity are stored in the microcomputer. (orig.)
CC *J.2 Physical sciences and engineering
B.7.1 Types and design styles (Integrated circuits)
ST DATA ACQUISITION SYSTEMS; MICROPROCESSORS; MICROPROCESSORS; TIME-OF-FLIGHT SPECTROMETERS; HEAVY ION SPECTROMETERS; ANALOG-TO-DIGITAL CONVERTERS; COUNTING CIRCUITS

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STN

L9 ANSWER 1 OF 39 COMPUAB COPYRIGHT 2003 CSA on STN
AN 1998:3680 COMPUAB
TI Multiplexer/demultiplexer implementation using a CCSDS format
INT TELEM CONF PROC
AU Grebe, David L.
CS Apogee Labs, Inc, North Wales, PA, USA
SO (**19970000**) vol. 33, pp. 53-60. ISA. RESEARCH TRIANGLE PARK, NC, (USA).
Meeting Info.: The 1997 International Telemetering Conference, ITC/USA. Las Vegas, NV, USA. 10/27-30/97.
DT Book
TC Conference
FS C
LA English
AB A multiplexer/demultiplexer design suitable to a wide range of input data types and link formats is presented. Based on the Consultative Committee on Space **Data Systems** (CCSDS) recommendations for Packet Telemetry, the design translates the prescribed layered architecture into a modular, layered hardware implementation. The design approach minimizes hardware yielding increased reliability and decreased product cost while retaining a high degree of flexibility. This implementation can be applied to **flight data** acquisition (direct transmission to the ground or recorded), ground data collection (including multi-stream record systems) and inter-range communications. The use of an internationally recognized standard promotes inter-service interoperability and facilitates data handling/routing throughout a wide community.
CC 716 Electronic Equipment, Radar, Radio and Television; 731. Control System Applications; 723 Computer Software, Data Handling and Applications; 722 Computer Hardware; 716. Radio Systems and Equipment; 911 Cost and Value Engineering, Industrial Economics
UT Packet networks; Data communication systems; Computer hardware; Reliability; Multiplexing equipment; Data acquisition; Costs; Standards; Data communication equipment; Consultative committee for space data systems (CCSDS); Packet telemetry; Demultiplexers

L9 ANSWER 2 OF 39 COMPUAB COPYRIGHT 2003 CSA on STN
AN 96:16808 COMPUAB
TI Methods for updating the environment's geometric database in telerobotics
AU Triboulet, Jean; N'Zi, Edie Camille; Chavand, Florent
CS CEMIF, Evry, Fr
SO MATH COMPUT SIMUL, (**1996**) vol. 41, no. 3-4, pp. 307-320.
ISSN: 0378-4754.
DT Journal
FS C
LA English
AB The paper deals with tools a human operator (HO) can use to complete, on-line, the 3D geometric **database** of the remote environment, even in case of bad condition of vision. The HO provides the system with the 3D geometric primitive of the object's model and the 2D data from the video image. The sensing system: a monocular video camera and a **time** of **flight** IR range finder, provides the system with figures relating to the 3D primitives (location, pose, size). Methods for location and pose determination of known objects and for modelling of unknown ones are presented and assessed. These methods are available for polyhedral and cylinder shaped objects, which represent the bases of most of industrial environments.
CC 741. Vision; 723. Computer Applications; 731. Robot Applications; 731. Robotics; 723. Data Processing; 921. Numerical Methods

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UT Robots; Database systems; Three dimensional; Mathematical models; Remote sensing; Video cameras; Range finders; Computer simulation; Stereo vision; Feature extraction; Image processing; Geometric database; Human operator; Three dimensional primitives; Video image; Time of flight; Location and pose determination

L9 ANSWER 3 OF 39 COMPUAB COPYRIGHT 2003 CSA on STN
AN 95:17324 COMPUAB
TI Trend monitoring comes of age
AU Esler, David
SO BUS COMMER AVIAT, (**1995**) vol. 77, no. 1, pp. 70-75.
ISSN: 0191-4642.
DT Journal
FS C
LA English
AB The advent of onboard monitoring equipment and formulation of trend-monitoring procedures has only recently allowed **flight** engineers and maintenance **departments** to accurately assess engine condition and predict powerplant's life. Lockheed's huge C5A Galaxy military hauler paved the way for the first transport aircraft with an onboard, multi-channel engine and systems condition-monitoring computer designed into the airframe. Capable of providing real-**time information** to **flight** and ground crews, the system featured diagnostic analysis and was backed up by a maintenance **database**, or library, for inflight reference. Meanwhile, refinement of microprocessors eventually spawned smaller, lighter monitoring equipment and more sophisticated remote sensors for both military and civil aircraft. The maturation of computerized condition monitoring and trend monitoring in the last decade is discussed further.
CC 652. Aircraft Instruments and Equipment; 653. Aircraft Engines (General); 652. Aircraft (General); 732. Control Instrumentation; 723. Computer Applications
UT Aircraft engines; Cockpits (aircraft); Monitoring; Airframes; Computer applications; Maintenance; Data processing; Computer software; Database systems; Sensors; Data storage equipment; Computer technology; Instrumentation; Automated trend monitoring; Air data computers

L9 ANSWER 4 OF 39 COMPUAB COPYRIGHT 2003 CSA on STN
AN 95:17320 COMPUAB
TI Flight-testing and frequency-domain analysis for rotorcraft handling qualities
AU Ham, Johnnie A.; Gardner, Charles K.; Tischler, Mark B.
SO J AM HELICOPTER SOC, (**1995**) vol. 40, no. 2, pp. 28-38.
ISSN: 0002-8711.
DT Journal
FS C
LA English
AB A demonstration of frequency-domain flight-testing techniques and analysis was performed on a U.S. Army OH-58D helicopter in support of the OH-58D Airworthiness and Flight Characteristics Evaluation and of the Army's development and ongoing review of Aeronautical Design Standard 33C, Handling Qualities Requirements for Military Rotorcraft. Hover and forward flight (60 kn) tests were conducted in 1 flight hour by Army experimental test pilots. Further processing of the hover data generated a complete **database** of velocity, angular-rate, and acceleration-frequency responses to control inputs. A joint effort was then undertaken by the Airworthiness Qualification Test Directorate and the U.S. Army Aeroflightdynamics Directorate to derive handling-quality information from the frequency-response **database**. A significant amount of

information could be extracted from the frequency-domain **database** using a variety of approaches. This report documents numerous results that have been obtained from the simple frequency-domain tests; in many areas, these results provide more insight into the aircraft dynamics that affect handling qualities than do traditional flight tests. The handling-quality results include ADS-33C bandwidth and phase-delay calculations, vibration spectral determinations, transfer-function models to examine single-axis results, and a six-degree-of-freedom fully coupled state-space model. The ability of this model to accurately predict aircraft responses was verified using data from pulse inputs. This report also documents the frequency-sweep **flight**-test technique and **data** analysis used to support the tests.

CC 652. Helicopters; 651. Aerodynamics (General); 731. Specific Variables Control; 723. Data Processing; 723. Database Systems

UT Flight dynamics; Motion control; Data reduction; Database systems; Frequency response; Machine vibrations; Degrees of freedom (mechanics); Frequency domain analysis; State space methods; Transfer functions; Mathematical models; Flight testing; Rotorcraft handling; Airworthiness; Forward flight; Hover

L9 ANSWER 5 OF 39 COMPUAB COPYRIGHT 2003 CSA on STN

AN 95:11581 COMPUAB

TI Databases for reliability and probabilistic risk assessment
PROC ANNU RELIAB MAINTAINABILITY SYMP

AU Thaggard, Michael

SO (**1995**) pp. 327-336. IEEE. PISCATAWAY, NJ, (USA).
Meeting Info.: The 1995 Annual Reliability and Maintainability Symposium. Washington, DC, USA. 01/16-19/95.

DT Book

TC Conference

FS C

LA English

AB NASA Headquarters is developing a risk-assessment reliability - availability - maintaining - supportability (RRAMS) databases architecture that includes two types of **database** files. The **database** files represent the compilation of a unique consortium of space **flight** reliability **information**. Also, the **database** contains notable facts that enable the construction of launch chronologies on several launch vehicles. It offers a useful training aid for instructing safety professionals on lessons learned in the aerospace community. In addition, the **database** is structured to permit easy searches for space **flight data** and allows failure trends to be tracked.

CC 723. Database Systems; 922. Probability Theory; 914. Accidents and Accident Prevention; 723. Data Processing; 656. Space Flight

UT Reliability; Probability; Risk assessment; Performance; Encoding (symbols); Failure analysis; Availability; Statistics; Space flight; Accident prevention; Data structures; Professional aspects; Launch performance; Failure root cause; Failure mode; Failure probability; Data encoding

L9 ANSWER 6 OF 39 COMPUAB COPYRIGHT 2003 CSA on STN

AN 95:202 COMPUAB

TI Estimates of phytoplankton biomass in the Chesapeake Bay from aircraft remote sensing of chlorophyll concentrations, 1989-92

AU Harding, Lawrence W. Jr.; Itsweire, Eric C.; Esaias, Wayne E.

CS Univ of Maryland, College Park, MD, USA

SO REMOTE SENS ENVIRON, (**1994**) vol. 49, no. 1, pp. 41-56.
ISSN: 0034-4257.

STN

DT Journal
FS C
LA English
AB Aircraft remote sensing of surface chlorophyll concentrations with NASA's Ocean Data Acquisition System (ODAS) was used to determine the seasonal and interannual dynamics of phytoplankton biomass in the Chesapeake Bay from 1989 to 1992. Flights were conducted at a frequency of 1-2 per week from late winter through early fall, and were scheduled to coincide with shipboard sampling as weather permitted. The primary sources of in situ data for developing and validating biomass algorithms were monitoring cruises sponsored by the Chesapeake Bay Program (CBP) and the NSF-sponsored Land Margin Ecosystem Research (LMER) program of the University of Maryland. The general approach was to recover estimates of biomass from the relationship of surface chlorophyll to the concentration of vertically-integrated chlorophyll weighted bathymetrically. The seasonally and annually specific relations used to estimate biomass were then applied to ODAS estimates of surface chlorophyll for each of >90 **flights** to produce a **time** series of total phytoplankton biomass (in metric tons of chlorophyll) for the Chesapeake Bay. Estimates of algal biomass averaged approximately 500 metric tons, with maximum values of 1400 metric tons in spring 1990. These values are in agreement with estimates computed from the integrated vertical profiles of the CBP **database** using a 3D interpolator model. The total biomass of phytoplankton during the spring bloom of 1990 was significantly higher than in 1989, 1991, and 1992. The causes of these interannual differences are discussed in terms of variations in Susquehanna River flow and nutrient loading to the estuary.
CC 732. Control Instrumentation; 461. Biological Materials; 723. Data Processing; 444. Surface Water; 631. Fluid Flow (General)
UT Biomass; Chlorophyll; Data acquisition; Multispectral scanners; Estuaries; Discharge (fluid mechanics); Natural sciences computing; Marine biology; Algorithms; Phytoplankton biomass; Chesapeake Bay; Aircraft remote sensing; Chlorophyll concentrations

L9 ANSWER 7 OF 39 COMPUAB COPYRIGHT 2003 CSA on STN
AN 93:14251 COMPUAB
TI Exercise countermeasure protocol management expert system.
AU Webster, Laurie; Chen, Jen-Gwo; Flores, Luis; Tan, Simon
CS NASA/Johnson Space Cent, USA
SO COMPUT METHODS PROG BIOMED., (**1993**) vol. 39, no. 3-4, pp. 217-223.
ISSN: 0169-2607.
DT Journal
FS C
LA English
AB Exercise will be used primarily to countermeasure against deconditioning on extended space flight. In this paper we describe the development and evaluation of an expert system for exercise countermeasure protocol management. Currently, the system includes two major subsystems: baseline prescription and prescription adjustment. The baseline prescription subsystem is designed to provide initial exercise prescriptions while prescription adjustment subsystem is designed to modify the initial prescription based on the exercised progress. The system runs under three different environments: PC, SUN workstation, and Symbolic machine. The inference engine, baseline prescription module, prescription adjustment module and explanation module are developed under the Symbolic environment by using the ART (Automated Reasoning Tool) software. The Sun environment handles **database** management features and interfaces with PC environment to obtain physical and physiological data from exercise units

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on-board during the **flight**. Eight subjects' **data** have been used to evaluate the system performance by comparing the prescription of nine experienced exercise physiologists and the one prescribed by the expert system. The results of the validation test indicated that the performance of the expert system was acceptable.

CC 723. Expert Systems; 656. Space Flight; 462. Biomedical Equipment (General); 461. Biomedical Engineering; 723. Computer Applications; 722 COMPUTER HARDWARE

UT Manned space flight; Exercise equipment; Physiology; Computer aided diagnosis; Network protocols; Database systems; Personal computers; Computer workstations; User interfaces; Space stations; Exercise countermeasure protocol management; Deconditioning countermeasure; Baseline prescription; Prescription adjustment; SUN workstation; Symbolic machine; Software package Automated Reasoning Tool (ART)

L9 ANSWER 8 OF 39 COMPUAB COPYRIGHT 2003 CSA on STN

AN 93:9374 COMPUAB

TI Boeing flight test planning and procedures.
INT TELEM CONF PROC.

AU Eccles, Lee H.

CS Flight Test Engineering, Seattle, WA, USA

SO (**1992**) vol. 28, pp. 697-705. INT FOUNDATION FOR TELEMETERING, WOODLAND HILLS, CA (USA).
Meeting Info.: 28th International Telemetering Conference - ITC/USA/92. San Diego, CA, USA. 10/26-29/92.

DT Book

TC Conference

FS C

LA English

AB The Boeing Commercial Airplane Group uses a highly computerized Flight Test system. Everything from test planning to equipment control is handled through a large mainframe computer. This paper is an introduction to the structures which are necessary to efficiently run tests on many different airplanes at the same time, with a wide range of test requirements. This paper discusses the **data bases** required, the test planning and the procedures used to run a **flight** test program. Some **data bases** are common to all test programs while others are specific to a particular test program. The test planning begins with the Instrumentation Requirements estimating process. Then comes selecting parameters from the common **data bases** and marking them as required for a particular test program. New parameters are added to the common **data bases** as required. Once the process of identifying parameters to be recorded is started, the computer automatically generates airplane specific **data bases** and loads the information from the common **data bases** into them so that the other groups can select the specific instrumentation to be used to measure each parameter. As this planning is accomplished, information is added to the **data bases** so that they become more complete as the actual testing approaches. When the airplane enters it's testing phase, the data from these **data bases** is retrieved and provided to both the on-board data monitor system and the ground station to allow data to be acquired from the data acquisition system or from tape for data processing. As the testing is accomplished the computer data is updated to indicate the progress of the testing.

CC 652. Aircraft (General); 652. Aircraft Instruments and Equipment; 723. Computer Applications; 723. Data Processing; 723. Database Systems

UT Automatic testing; Computer applications; Aircraft; Database systems; Information retrieval; Data acquisition; Flight test planning; Commercial

airplanes; Boeing airplanes; Mainframe computers

L9 ANSWER 9 OF 39 COMPUAB COPYRIGHT 2003 CSA on STN
AN 93:8711 COMPUAB
TI Analyzing the flared landing task with pitch-rate flight control systems.
AU Hess, Ronald, A.; Yousefpor, Marduke
CS Univ of California, Davis, CA, USA
SO J GUID CONTROL DYN., (**1992**) vol. 15, no. 3, pp. 768-774.
ISSN: 0731-5090.
DT Journal
FS C
LA English
AB A closed-loop handling qualities methodology is applied to an analysis of the flared landing task with pitch-rate flight control systems. A model of pilot behavior throughout approach and flare is developed that postulates the manner in which the pilot may move from pitch attitude to flight-path angle control. Twenty-five configurations flight tested on the NC-131H total in-flight simulator aircraft are analyzed using a structural pilot model and a handling qualities methodology previously reported in the literature. Closed-loop simulation of the simplified landing task is undertaken using the structural model. The pilot ratings from **flight** test extended the **data base** supporting the utility of a model-based handling qualities metric. A handling qualities sensitivity function is introduced that may have potential as a design tool.
CC 652. Aircraft (General); 723. Computer Applications; 658 AEROSPACE ENGINEERING, GENERAL; 651. Aerodynamics (General); 731. Control Systems
UT Flight simulators; Aircraft landing; Human engineering; Flight dynamics; Control systems; Flight path angle control; Landing flare maneuver; Handling qualities methodology; Pitch rate flight control systems

L9 ANSWER 10 OF 39 COMPUAB COPYRIGHT 2003 CSA on STN
AN 93:1643 COMPUAB
TI Flight data acquisition for validation of passive ranging algorithms for obstacle avoidance.
AU Smith, Phillip N.
CS NASA Ames Research Cent, Moffett Field, CA, USA
SO J AM HELICOPTER SOC., (**1992**) vol. 37, no. 4, pp. 32-37.
ISSN: 0002-8711.
DT Journal
FS C
LA English
AB The automation of low-altitude rotorcraft flight depends on the ability to detect, locate, and navigate around obstacles lying in the rotorcraft's intended flightpath. Computer vision techniques provide a passive method of obstacle detection and range estimation, for obstacle avoidance. Several algorithms based on computer vision methods have been developed for this purpose using laboratory data; however, further development and validation of candidate algorithms require **data** collected from rotorcraft **flight**. A **data base** containing low-altitude imagery augmented with the rotorcraft and sensor parameters required for passive range estimation is not readily available. This paper focuses on the methodology used to develop such a **data base** from **flight**-test **data** consisting of imagery, rotorcraft and sensor parameters, and ground-truth range measurements. As part of the data preparation, a technique for obtaining the sensor calibration parameters is described. The **data base** will enable the further development of algorithms for computer vision-based obstacle detection and passive range estimation, as

well as provide a benchmark for verification of range estimates against ground-truth measurements.
CC 431. Air Transportation (General); 723. Data Processing; 404 CIVIL DEFENSE AND MILITARY ENGINEERING; 652. Helicopters; 723 COMPUTER SOFTWARE, DATA HANDLING AND APPLICATIONS; 943. Mechanical Variables Measurements
UT Data acquisition; Military helicopters; Automatic pilots; Algorithms; Distance measurement; Computer vision; Database systems; Range finders; Data processing; Navigation systems; Calibration; Sensors; Low altitude flight; Obstacle avoidance; Passive range estimation; Flight testing; Sensor calibration; Ground truth measurements; Nap of the Earth (NOE) flight

L9 ANSWER 11 OF 39 COMPUAB COPYRIGHT 2003 CSA on STN
AN 92:622 COMPUAB
TI Neutral buoyancy simulation of space telerobotics operations.
COOPERATIVE INTELLIGENT ROBOTICS IN SPACE II.
AU Akin, D.L.; Howard, R.D.; Stoney, W.E. [editor]
CS Space Syst. Lab., Dep. Aerospace Eng., Univ. Maryland, College Park, MD 20742, USA
SO (**1992**) vol. 1612, pp. 414-420.
Meeting Info.: SPIE Conference on Cooperative Intelligent Robotics in Space. Boston, MA (USA). 12-14 Nov 1991.
DT Book
TC Conference
FS C
LA English
SL English
AB This paper addresses the underlying rationale behind the use of neutral buoyancy simulation in telerobotics research, including details of the well-modeled dynamic environment; the existence of a sizable **data base** extra-vehicular activity (EVA) operations in neutral buoyancy with correlation to flight experience; and routine access to a number of high-fidelity mockups of past and planned operational spacecraft. Details are presented on the compromises necessary for the design and construction of neutral buoyancy telerobotics systems, and data will be summarized from a number of past simulations, including correlation of neutral buoyancy structural assembly with EVA **flight data**, and some preliminary tests of telerobotic servicing of Hubble Space Telescope.
CC CA4 ROBOTICS; CA14 SPACE ENGINEERING
UT robots; simulation; maintenance; guidance and control systems; space technology; research and development

L9 ANSWER 12 OF 39 COMPUAB COPYRIGHT 2003 CSA on STN
AN 90:3173 COMPUAB
TI Expert system for performance analysis.
APPLICATIONS OF ARTIFICIAL INTELLIGENCE VIII.
AU Crane, R.N.; Hill, R.F.; Andert, E.P.,Jr.; Trivedi, M.M. [editor]
CS Interstate Electronics Corp., 604 E. Vermont Ave., Anaheim, CA 92803, USA
SO (**1990**) vol. 1293, pp. 850-858.
Meeting Info.: SPIE Conference on Applications of Artificial Intelligence VIII. Part 2. Orlando, FL (USA). 17-19 Apr 1990.
DT Book
TC Conference
FS C
LA English
SL English
AB Expert system technology is applied to the problem of obtaining detailed, consistent, timely and accurate post-flight performance analysis of a

complex airborne vehicle tracking system. The operational complexity of the tracking system is described and a general methodology for automating post-flight performance analysis is outlined. An expert system is developed which is executed in a compiled language and utilizes generic rule modules with a rule attribute **data base** to achieve high processing speeds and enhance maintainability. The expert system is presently supporting the post-flight performance analysis of tracking system **data** from actual **flights**.

CC CA2. DECISION SUPPORT SYSTEMS, EXPERT SYSTEMS, KNOWLEDGE BASED SYSTEMS; CA14 AERONAUTICAL ENGINEERING

UT expert systems; performance; artificial intelligence; Airborne Vehicle Tracking System

L9 ANSWER 13 OF 39 COMPUAB COPYRIGHT 2003 CSA on STN

AN 84:5699 COMPUAB

TI DBMS gets aircraft development off the ground.

AU Anon.

SO COMPUTERWORLD., (**1984**) vol: 18, no. 22, pp. 35,36.

DT Journal

FS C

LA English

AB For engineers involved in aircraft development, constant communication and interaction between various disciplines are critical elements in the design process. Thanks to a recently implemented relational **data base** management system (**DBMS**), several departments at Saab-Scania AB's Aircraft Division are able to access interrelated information via a networked **data base**. Saab's stress analysis, computer-aided design and manufacture (CAD/CAM), aerodynamics and **flight** test **departments**, as well as its simulation center, share engineering data relevant to designing civilian and military aircraft.

CC CA14 AERONAUTICAL ENGINEERING; CA5. TRANSPORTATION EQUIPMENT; CS2. TRANSPORTATION EQUIPMENT

UT data base management systems; aircraft; computer aided design; simulation; computer aided manufacturing

L9 ANSWER 14 OF 39 COMPUAB COPYRIGHT 2003 CSA on STN

AN 83:13621 COMPUAB

TI Data management support for selected climate data sets using the Climate Data Access System.

AU Reph, M.G.

CS NASA, Goddard Space Flight Cent., Greenbelt, MD, USA

SO (**1983**) 95 pp. NTIS, SPRINGFIELD, VA (USA). N83-35562/8..

DT Report

FS C

LA English

SL English

AB The functional capabilities of the Goddard Space **Flight** Center (GSFC) Climate **Data** Access System (CDAS), an interactive data storage and retrieval system, and the **archival** data sets which this system manages are discussed. The CDAS manages several climate-related data sets, such as the First Global Atmospheric Research Program (GARP) Global Experiment (FGGE) Level 2-b and Level 3-a data tapes.

CC CA15 METEOROLOGY/AEROLOGY; CS2. METEOROLOGY/AEROLOGY

UT CDAS (Climate Data Access System); climatology; information retrieval; data collection; storage; Climate Data Access System

L9 ANSWER 15 OF 39 COMPUAB COPYRIGHT 2003 CSA on STN

STN

AN 83:6827 COMPUAB
TI Minuteman inertial guidance assessment: The next best thing to flight tests.
AU Andre, M.H.; Czaja, J.J.
CS Rockwell Int. Corp., Anaheim, CA, USA
SO J. GUID. CONTR. DYN., (**1983**) vol. 6, no. 3, pp. 156-161.
DT Journal
FS C
LA English
SL English
AB Techniques have been developed and implemented to enable the continuous assessment of Minuteman inertial guidance performance and in-**flight** reliability at a **time** when relatively few **flight** tests are planned for the remaining service lifetime of the weapon system. A simulated flight test is used to augment the in-**flight** reliability **data base** and to detect possible incipient degradation under the stresses representative of flight. The simulated flight environment is modeled from actual **flight** shock and vibration **data**. **Systems** are selected from the force for this nondestructive test on an unbiased sampling basis.
CC CA13 WEAPONS
UT military engineering; weapons; service life; reliability; guidance and control systems; simulation

L9 ANSWER 16 OF 39 COMPUAB COPYRIGHT 2003 CSA on STN
AN 83:5046 COMPUAB
TI Coding for satellite and space channels.
AU Wu, W.W.
CS Intelsat, 490 L'Enfant Plaza, S.W., Washington, DC 20024, USA
SO INT. J. ELECTRON., (**1983**) vol. 55, no. 1, pp. 183-212.
DT Journal
FS C
LA English
SL English
AB This paper addresses the issues of justifications, variations, and performance measures of error coding applications for communication satellite and deep space channels. Justifications are discussed through power, bandwidth, and complexity tradeoffs. Variations are illustrated by the diversity of applicable codes and decoding algorithms. Performance measures are compared on a sample of useful codes for channels under consideration. Code selection criteria for ARQ (error detection with automatic request for retransmission) and forward error correction in some operational and designed systems are highlighted. Potentially useful codes and coding techniques for future satellite systems are suggested. The coding standard of NASA space **flight** tracking and **data** **network** is briefly described. The recent results of multilevel phase modec and the orchard coding schemes are also included.
CC CM8. ERROR DETECTING AND CORRECTING CODES; CM8. CHANNELS/TRANSMISSION
UT channels; satellite communications; coding; error correcting codes

L9 ANSWER 17 OF 39 COMPUAB COPYRIGHT 2003 CSA on STN
AN 83:2955 COMPUAB
TI NASA storage/retrieval net to go on-line June 1984.
AU Gillin, P.
CS Address not stated
SO COMPUTERWORLD., (**1983**) vol. 17, no. 14, p. 19.
DT Journal
FS C

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STN

LA English
AB When put on-line in June 1984, the Marshall Space **Flight** Center **Data System** Technology Program (DSTP) will make over 10T bits of data available on-line to users at universities and scientific laboratories around the country. The institutions keep tabs on the myriad scientific experiments and observations performed by satellites orbiting the globe. DSTP will be centered around three Digital Equipment Corp. VAX-11/780 computers and 128 tellurium-coated optical disks, each capable of storing 83G bits of data. The disks will be arranged in an array similar to that found in a jukebox and read and written on by a laser scanning a turntable not unlike a phonograph's. The system will be tied together by a fiber optic bus that is being developed by ITT under a subcontract with OAO Corp., Nasa's prime contractor on the project.
CC CE3. SYSTEMS DESIGN AND MACHINE ORGANIZATION; CA8. STORAGE/RETRIEVAL/DISSEMINATION
UT satellite communications; information retrieval; storage; online systems; fiber optics; networks; NASA (National Aeronautics and Space Administration); DEC VAX 11/780; NASA; Marshall Space Flight Center

L9 ANSWER 18 OF 39 COMPUAB COPYRIGHT 2003 CSA on STN
AN 83:2661 COMPUAB
TI NASA's QSRA plane uses upper surface blowing.
AU Holt, D.J.
CS SAE, 400 Commonwealth Drive, Warrendale, PA 15096, USA
SO AEROSPACE ENG., (**1983**) vol. 3, no. 1, pp. 5-10.
DT Journal
FS C
LA English
AB The Quiet Short-Haul Research Aircraft (QSRA) was developed by NASA's Ames Research Center as a research tool to investigate propulsive lift. The plane uses the upper surface blowing (USB) technique (engine exhaust flows over top of wing) to develop high lift at low noise levels. The ultimate goal of the QSRA is to provide a **data base** on the **flight** aerodynamics of a propulsive lift aircraft.
CC CA14 AERONAUTICAL ENGINEERING
UT aircraft; propulsion; wings; flow of gases; aerodynamics; data bases

L9 ANSWER 19 OF 39 COMPUAB COPYRIGHT 2003 CSA on STN
AN 82:13311 COMPUAB
TI Quantification of helicopter vibration ride quality using absorbed power measurements.
AU Hollenbaugh, D.D.
CS Army Res. & Technol. Lab., Fort Eustis, VA, USA
SO (**1982**) 18 pp. NTIS, SPRINGFIELD, VA. AD-A117 290/7..
DT Report
FS C
LA English
SL English
AB The absorbed power concept offers certain advantages over pure acceleration for helicopter ride quality evaluation. First, it takes into account multi-frequency, multi-axial vibration across a broad frequency range. Second, it provides proper weighting functions for all frequencies and axes according to body response. Third, it is applicable to random as well as periodic accelerations. A larger **data base** and further experimentation is required for full validation of absorbed power as a means for quantifying helicopter vibration ride quality. Further in-**flight data** will be collected to expand the vibration/noise environment **data base**, repeating measurements on the aircraft mentioned here, and add further aircraft.

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Already underway is a program to take measurements on US Navy air craft types.
CC CA14 AERONAUTICAL ENGINEERING
UT aircraft; vibration; data bases; absorption; noise measurement; quality control; helicopters; ergonomics; acceleration; data collection; frequency

L9 ANSWER 20 OF 39 COMPUAB COPYRIGHT 2003 CSA on STN
AN 82:12536 COMPUAB
TI Comparison of Shuttle flight pressure data to computational and wind-tunnel results.
AU Bradley, P.F.; Siemers, P.M.; Weilmuenster, K.J.
CS NASA Langley Res. Cent., Hampton, VA, USA
SO J. SPACECRAFT & ROCKETS., (**1982**) vol. 19, no. 5, pp. 419-422.
Meeting Info.: AIAA/SETP/SFTE/SAE/ITEA/IEEE 1st Flight Testing Conf.. Las Vegas, NV. Nov 11-13, 1981.
DT Journal
TC Conference
FS C
LA English
SL English
AB A comparison between orbiter development flight instrumentation (DFI) forward fuselage **flight** pressure **data**, obtained from OV-102 during the space transportation system's (STS-1) re-entry, and ground facility and computational results is presented. Wind-tunnel data were obtained on a 0.04-scale orbiter forebody model. Computational data were obtained from the high alpha inviscid solutions (HALIS) computer code. These comparisons will be used to validate the existing experimental **data base** and optimize pressure modeling techniques developed in support of the Shuttle entry air **data system** (SEADS). The SEADS is a proposed across-the-speed-range second-generation air **data system** for the orbiter, using an array of flush pressure taps to be installed in the orbiter nose cap and forward fuselage.
CC CA14 SPACE ENGINEERING
UT spacecraft; wind tunnels; propulsion; flight control systems; aerodynamics; SEADS (Shuttle Entry Air Data System)

L9 ANSWER 21 OF 39 COMPUAB COPYRIGHT 2003 CSA on STN
AN 82:8661 COMPUAB
TI Real time analysis for helicopter flight testing.
AU Lunn, K.; Knopp, J.L.
CS Boeing Vertol Co., Philadelphia, PA, USA
SO J. AM. HELICOPTER SOC., (**1982**) vol. 27, no. 3, pp. 48-57.
Meeting Info.: Sixth Europ. Rotorcraft and Powered Lift Forum. Bristol, UK. Sep 1980.
DT Journal
TC Conference
FS C
LA English
SL English
AB A **data system** for helicopter **flight** testing is described which provides calculated values, analog time histories in scaled engineering units and performs analyses during a test condition or inflight maneuver. Software, resident on the system, configures the ground station for the test aircraft and rapidly changes the type of analysis routine as required during flight. By the addition of ground based transponders, spatial positioning information is made available. A **data bank** stores all necessary calculated values and can be accessed for merging, cross-plotting, fatigue damage and component life

calculations. The system handles all **flight** test **data**; offloading to an all purpose or central engineering computer is eliminated. Increases in flight test productivity are realized combined with a reduction in the size of the data processing staff.
CC CA14 AERONAUTICAL ENGINEERING
UT computer applications; flight control; aircraft; data collection; information systems; helicopters; aerospace test facilities; time measurement; computer aided analysis; ground support systems; ground support equipment

L9 ANSWER 22 OF 39 COMPUAB COPYRIGHT 2003 CSA on STN
AN 80:3080 COMPUAB
TI Development of a Computer Program **Data Base** of a Navigation Aid Environment for Simulated IFR **Flight** and **Landing** Studies
AU Bergeron, H.P.; Haynie, A.T.; McDede, J.B.
CS NASA, Hampton, VA, Langley Res. Ctr.
SO (**1980**) 35 pp. NTIS, SPRINGFIELD, VA. N81-13959/4.
DT Book
FS C
LA English
AB A general aviation single pilot instrument flight rule simulation capability was developed. Problems experienced by single pilots flying in IFR conditions were investigated. The simulation required a three dimensional spatial navaid environment of a flight navigational area. A computer simulation of all the navigational aids plus 12 selected airports located in the Washington/Norfolk area was developed. All programmed locations in the list were referenced to a Cartesian coordinate system with the origin located at a specified airport's reference point. All navigational aids with their associated frequencies, call letters, locations, and orientations plus runways and true headings are included in the data base. The simulation included a TV displayed out-the-window visual scene of country and suburban terrain and a scaled model runway complex. Any of the programmed runways, with all its associated navaids, can be referenced to a runway on the airport in this visual scene. This allows a simulation of a full mission scenario including breakout and landing.
CC CA14 AERONAUTICAL ENGINEERING; CS2. AERONAUTICAL ENGINEERING
UT Data bases; Flight simulation; Instrument flight; Navigation; Runways; Computer programs; IFR (Instrument Flight Rules)

L9 ANSWER 23 OF 39 COMPUSCIENCE COPYRIGHT 2003 FIZ KARLSRUHE on STN
AN 1996(3):CS43291 COMPUSCIENCE
TI A prototype rule-based front end expert system for integrity enforcement in relational data bases. An application to the Naval Aircraft Flight Records data base.
AU Kamel, M. N.
SO Expert systems with applications. (1995) vol. 8(1) p. 47-58.
New York, NY, US: Pergamon Press. 1995.
An international journal.
ISSN: 0957-4174
DT Journal; Short Communication
TC Theoretical
CY Germany, Federal Republic of
LA English
IP FH Potsdam
AB An important goal of any data base system is to model the real world accurately in a manner consistent with the user's perception of the data. One way to accomplish the accuracy of information in relational data

bases is through the enforcement of integrity constraints that represent rules pertaining to the organization. Unfortunately, most DBMSs today do not provide adequate integrity features to ensure the accuracy of data in their databases. This paper discusses the design and implementation of a prototype rule-based front end expert system for integrity enforcement for the Naval Aircraft Flight Record relational data base. The expert system includes a set of rules that define (a) the update operation that triggers the testing of an integrity rule, (b) a specification of the condition to be tested, and (c) the action to be taken in case of attempted violation. These rules are stored in a knowledge base, which the inference engine of the expert system uses to enforce data base integrity. (Autor)

CC *I.2.1 Applications and expert systems
J.2 Physical sciences and engineering

ST Artificial intelligence; Regional planning, transportation; Expert system; Database; Relational; Prototype; Transportation

L9 ANSWER 24 OF 39 COMPUSCIENCE COPYRIGHT 2003 FIZ KARLSRUHE on STN
AN 1993(10):ID1757 COMPUSCIENCE
TI Ethnographically-informed systems design for air traffic control.
AU Bentley, R.; Hughes, J. A.; Randall, D.
SO CSCW'92.
New York, NY, US: ACM Press. 1992. 403 S. p.123-129.
Conference: CSCW'92, Toronto, CA, Oct 31--Nov 04, 1992
ISBN: 0-89791-542-9
DT Book Article; Conference
LA English
IP FH Potsdam
AB This paper relates experiences of a project where an ethnographic study of air traffic controllers is being used to inform the design of the controllers' interface to the flight data base. We outline the current UK air traffic control system, discuss the ethnographic work we have undertaken studing air traffic control as a cooperative activity, describe some of the difficulties in collaboration between software developers and sociologists and show how the ethnographic studies have influenced the systems design process. Our conclusions are that ethnographic studies are helpful in informing the systems design process and may produce insights which contradict conventional thinking in systems design. (Autor)
CC *J.2 Physical sciences and engineering
ST Cooperation; Regional planning transportation; Social problems

L9 ANSWER 25 OF 39 COMPUSCIENCE COPYRIGHT 2003 FIZ KARLSRUHE on STN
AN 1993(5):ID690 COMPUSCIENCE
TI The need for a new experimental environment for HCI research into multi-agent, real-time systems.
AU Scown, P. J. A.
SO Behaviour and information technology. (1992) vol. 11(5) p.281-292.
An international journal on the human aspects of computing.
ISSN: 0144-929X
DT Journal
LA English
IP FH Potsdam
AB Much of the current research in Human Computer Interaction (HCI) is carried out using experimental environments based on word processors, database search, or other conventional office automation. While this approach meets many needs it lacks the power required for investigating many unconventional situations. Complex multi-agent real-time systems are not typically found in offices and cannot easily be investigated in

typical word processing or office automation contexts. The paper refers to four environments where multi-agency exists in a real-time environment: flight systems, plant control, telephone networks, and complex office systems. Consideration is given to the requirements of an alternative experimental environment which could allow HCI research to explore a wider range of issues (Autor).
CC *H.1.2 User/machine systems
H.4.1 Office automation
ST Office sector; Computer science; User problems

L9 ANSWER 26 OF 39 COMPUSCIENCE COPYRIGHT 2003 FIZ KARLSRUHE on STN
AN 1991(12):CS30502 COMPUSCIENCE
TI An airtravel expert database.
AU Freitag, B.; Biernath, O.
CS Inst. f. Informatik, TU, Arcisstr. 21, Postfach 20 24 20, W-8000 Muenchen 2, FRG
NR TUM-I--8804
SO Feb 1988. 27 p.
DT Report; Progress Report
TC Methodical
CY Germany, Federal Republic of
LA English
IP FIZKA
AB An Airtravel Expert Database built on top of a deductive database system is presented. The system makes extensive use of domain dependent heuristics and is able to find optimal time flight connections between any two airports under a number of user specified restrictions such as day and time of departure/arrival or preferred airlines. Basic data is taken from the official airline timetables and stored as base relations of the deductive database. Essentially the system performs a bidirectional heuristic search in the (weighted) graph given by the direct flight network. \medskip The basic query evaluation method is sloppy delta iteration. The query evaluation strategy can be viewed as informed because sloppy iteration provides a means to incorporate problem dependent heuristic knowledge. \medskip The Airtravel Expert Database serves as both a means for the investigation of the sloppy iteration scheme and as the kernel of an operational large scale airtravel information system with the potential to handle a large database and with the extensibility to access an external database.
CC *I.2.1 Applications and expert systems
I.2.8 Problem solving, control methods and search
I.2.3 Deduction and theorem proving
H.3.3 Information search and retrieval
H.2.8 Database applications
ST deductive database system; airline timetables; bidirectional heuristic search; flight network; query evaluation; sloppy delta iteration; problem dependent heuristic knowledge; Airtravel Expert Database

L9 ANSWER 27 OF 39 ELCOM COPYRIGHT 2003 CSA on STN
AN 95:5591 ELCOM
TI Impact of recent enhancements and upgrades of the Advanced Solid-State Array Spectroradiometer (ASAS)
DIG INT GEOSCI REMOTE SENS SYMP (IGARSS)
AU Dabney, Philip W.; Irons, James R.; Travis, Jeffrey W.; Kasten, Michael S.; Bhardwaj, Suneel
CS NASA/Goddard Space Flight Cent, Greenbelt, MD, USA
SO (1994) vol. 3, pp. 1649-1651. IEEE. PISCATAWAY, NJ, (USA).
Meeting Info.: The 1994 Geoscience and Remote Sensing Symposium. Part 3 (of 4). Pasadena, CA, USA. 08/08/94-08/12/94.

STN

DT Book
TC Conference
FS E
LA English
AB Several improvements have recently enhanced the Advanced Solid-State Array Spectroradiometer (ASAS) performance. First, the original Charge Injection Device (CID) array was replaced by a new Charge Coupled Device (CCD) array. This replacement required the development of a new **flight data system** and new array drive and acquisition electronics. As a result, the instrument is now capable of acquiring data for 62 visible/near-infrared spectral bands (sensor capabilities have been increased from 29 bands) with improved spectral resolution and radiometric sensitivity. Second, the original pointing platform was replaced with one that allows the sensor to
CC 944. Radiation Measuring Instruments; 715. Industrial Electronic Equipment; 716. Information and Communication Theory; 732. Control Instrumentation; 741. Optical Devices and Systems
UT Solid state devices; Charge coupled devices; Arrays; Signal to noise ratio; Optical sensors; Optical resolving power; Image processing; Advanced solid state array spectroradiometers; Charge injection devices

L9 ANSWER 28 OF 39 ELCOM COPYRIGHT 2003 CSA on STN
AN 94:2059 ELCOM
TI Airborne visible/infrared imaging spectrometer (AVIRIS).
AU Vane, Gregg; Green, Robert O.; Chrien, Thomas G.; Enmark, Harry T.; Hansen, Earl G.; Porter, Wallace M.
CS California Inst of Technology, Pasadena, USA
SO REMOTE SENS ENVIRON., **(1993)** vol. 44, no. 2-3, pp. 127-143. ISSN: 0034-4257.
DT Journal
FS E
LA English
AB The Airborne Visible/Infrared Imaging Spectrometer (AVIRIS) is a facility consisting of a **flight** system, a ground **data system**, a calibration facility, and a full-**time** operations team. The **flight** system is a wick-broom imager that acquires data in 224 narrow, continuous spectral bands covering the solar reflected portion of the electromagnetic spectrum. It is flown aboard the NASA high altitude ER-2 research aircraft. The ground **data system** is a facility dedicated to the processing and distribution of data acquired by AVIRIS. It operates year round and Jet Propulsion Laboratory. The calibration facility consists of a calibration laboratory at JPL and a suite of field instruments and procedures for performing in-flight calibration of AVIRIS. A small team of engineers, technicians and scientists supports a yearly operations schedule that includes 6 months of flight operations, 6 months of routine ground maintenance of the flight system, and a year-round data processing and distribution.
CC 941. Optical Variables Measurements; 741. Optical Devices and Systems; 652. Aircraft Instruments and Equipment; 941. Optical Variables Measurements; 741. Optical Devices and Systems; 652. Aircraft Instruments and Equipment
UT Infrared spectrometers; Imaging techniques; Imaging systems; Aircraft instruments; Infrared imaging; Data processing; Calibration; Personnel; Airborne Visible/Infrared Imaging Spectrometer (AVIRIS); Flight systems; Ground data systems; Calibration facilities

L9 ANSWER 29 OF 39 ELCOM COPYRIGHT 2003 CSA on STN
AN 93:7169 ELCOM
TI Differential GPS/Inertial navigation approach/landing flight test results.

EKD 09/11/2003

STN

REC IEEE PLANS POSITION LOCAT NAVIG SYMP.
AU Snyder, Scott; Schipper, Brian; Vallot, Larry; Parker, Nigel; Spitzer, Cary
SO (**1992**) pp. 336-344. IEEE, IEEE SERVICE CENTER, PISCATAWAY, NJ (USA).
Meeting Info.: IEEE 1992 Position Location and Navigation Symposium - PLANS '92. Monterey, CA, USA. 03/24/92-03/27/92.
ISBN: 0-7803-0468-3.
DT Book
TC Conference
FS E
LA English
AB In November of 1990 a joint Honeywell/NASA-Langley differential GPS/inertial flight test was conducted at Wallops Island, Virginia. The test objective was to acquire a system performance **database** and demonstrate automatic landing using an integrated differential GPS/INS (Global Positioning System/inertial navigation system) with barometric and radar altimeters. The flight test effort exceeded program objectives with over 120 landings, 36 of which were fully automatic differential GPS/inertial **landings**. **Flight** test results obtained from post-**flight data** analysis are discussed. These results include characteristics of differential GPS/inertial error, using the Wallops Island Laser Tracker as a reference. Data on the magnitude of the differential corrections and vertical channel performance with and without radar altimeter augmentation are provided.
CC 431. Air Navigation and Traffic Control; 716. Radar Systems and Equipment; 655. Satellites; 744. Laser Applications
UT Global positioning system; Aircraft landing; Radar; Laser applications; Landing flight tests; Wallops island laser tracker

L9 ANSWER 30 OF 39 ELCOM COPYRIGHT 2003 CSA on STN
AN 90:10422 ELCOM
TI Radiometric properties of the NS001 thematic mapper simulator aircraft multispectral scanner.
AU Markham, B.L.; Ahmad, S.P.
CS Biospheric Sci. Branch, NASA/GSFC, Code 923, Greenbelt, MD 20771, USA
SO REMOTE SENS. ENVIRON., (**1990**) vol. 34, no. 2, pp. 133-149.
DT Journal
FS E
LA English
SL English
AB The radiometry of the NS001 Thematic **Mapper** Simulator reflective channels was examined based on laboratory tests conducted between 1987 and 1989. Principal emphasis was on absolute calibration. The NS001 **data** are calibrated in-**flight** by reference to the NS001 internal integrating sphere source. Apparent instabilities in this source or its monitoring circuitry, which are not fully understood, are the principal limiting factors in the absolute calibration of NS001 data. Polarization sensitivity of the NS001 was such that for typical atmospheric conditions errors in Channel 1 (.45-.52 mu m) radiances would be up to plus or minus 10% and vary with scan angle; this progressively decreases with increasing wavelength.
CC 9020 GEODESY, REMOTE SENSING, CARTOGRAPHY, PHOTOGRAMMETRY
UT remote sensing; simulation; mapping; radiometry; image processing

L9 ANSWER 31 OF 39 ELCOM COPYRIGHT 2003 CSA on STN
AN 87:1799 ELCOM
TI Radiometric comparison of the LANDSAT-5-TM and MSS sensors.
AU Royer, A.; Charbonneau, L.; Brochu, R.

EKD 09/11/2003

STN

CS Cent. Appl. et Rech. en Teledetection, Univ. Sherbrooke, Sherbrooke, Que. J1K 2R1, Canada
SO INT. J. REMOTE SENS., (**1987**) vol. 8, no. 4, pp. 579-591.
DT Journal
FS E
LA English
SL English
AB This paper analyses the radiometric accuracy of LANDSAT-5 Thematic **Mapper** (TM) data and of LANDSAT-5 Multispectral Scanner (MSS) data, using concurrent TM and MSS images recorded simultaneously over the city of Montreal, Quebec, Canada. The data sets were obtained from the Canada Centre for Remote Sensing (CCRS), and have been preprocessed for geometric correction and for radiometric calibration utilizing the in-**flight** calibration lamp **data**. The comparison of the TM and MSS normalized apparent reflectances computed for 12 different typical cover types using the post-launch calibration dynamic ranges shows the relevance of the CCRS processing systems. The significant linear regressions can serve both to assess detector degradation with time and to rescale data to match those from other LANDSAT sensors.
CC ES9. GEODESY, TOPOLOGY, CARTOGRAPHY
UT Landsat; remote sensing; radiometers; calibration; Canada, Montreal

L9 ANSWER 32 OF 39 ELCOM COPYRIGHT 2003 CSA on STN
AN 83:2956 ELCOM
TI Minuteman inertial guidance assessment: The next best thing to flight tests.
AU Andre, M.H.; Czaja, J.J.
CS Rockwell Int. Corp., Anaheim, CA, USA
SO J. GUID. CONTR. DYN., (**1983**) vol. 6, no. 3, pp. 156-161.
DT Journal
FS E
LA English
SL English
AB Techniques have been developed and implemented to enable the continuous assessment of Minuteman inertial guidance performance and in-**flight** reliability at a **time** when relatively few **flight** tests are planned for the remaining service lifetime of the weapon system. A simulated flight test is used to augment the in-**flight** reliability **data base** and to detect possible incipient degradation under the stresses representative of flight. The simulated flight environment is modeled from actual **flight** shock and vibration **data**. **Systems** are selected from the force for this nondestructive test on an unbiased sampling basis.
CC ES7. SYSTEMS
UT military engineering; weapons; service life; reliability; guidance and control systems; simulation

L9 ANSWER 33 OF 39 ELCOM COPYRIGHT 2003 CSA on STN
AN 83:2382 ELCOM
TI Coding for satellite and space channels.
AU Wu, W.W.
CS Intelsat, 490 L'Enfant Plaza, S.W., Washington, DC 20024, USA
SO INT. J. ELECTRON., (**1983**) vol. 55, no. 1, pp. 183-212.
DT Journal
FS E
LA English
SL English
AB This paper addresses the issues of justifications, variations, and

performance measures of error coding applications for communication satellite and deep space channels. Justifications are discussed through power, bandwidth, and complexity tradeoffs. Variations are illustrated by the diversity of applicable codes and decoding algorithms. Performance measures are compared on a sample of useful codes for channels under consideration. Code selection criteria for ARQ (error detection with automatic request for retransmission) and forward error correction in some operational and designed systems are highlighted. Potentially useful codes and coding techniques for future satellite systems are suggested. The coding standard of NASA space **flight** tracking and **data network** is briefly described. The recent results of multilevel phase modec and the orchard coding schemes are also included.

CC ECO5 CODING; ECO5 TRANSMISSION AND CHANNEL CAPACITY
UT channels; satellite communications; coding; error correcting codes

L9 ANSWER 34 OF 39 ELCOM COPYRIGHT 2003 CSA on STN
AN 80:4589 ELCOM
TI Development of a Computer Program **Data Base** of a Navigation Aid Environment for Simulated IFR **Flight** and **Landing** Studies
AU Bergeron, H.P.; Haynie, A.T.; McDede, J.B.
CS NASA, Hampton, VA, Langley Res. Ctr.
SO (**1980**) 35 pp. NTIS, SPRINGFIELD, VA. N81-13959/4.
DT Book
FS E
LA English
AB A general aviation single pilot instrument flight rule simulation capability was developed. Problems experienced by single pilots flying in IFR conditions were investigated. The simulation required a three dimensional spatial navaid environment of a flight navigational area. A computer simulation of all the navigational aids plus 12 selected airports located in the Washington/Norfolk area was developed. All programmed locations in the list were referenced to a Cartesian coordinate system with the origin located at a specified airport's reference point. All navigational aids with their associated frequencies, call letters, locations, and orientations plus runways and true headings are included in the data base. The simulation included a TV displayed out-the-window visual scene of country and suburban terrain and a scaled model runway complex. Any of the programmed runways, with all its associated navaids, can be referenced to a runway on the airport in this visual scene. This allows a simulation of a full mission scenario including breakout and landing.
CC ES6. OTHER APPLICATIONS
UT Data bases; Flight simulation; Instrument flight; Navigation; Runways; Computer programs; IFR (Instrument Flight Rules)

L9 ANSWER 35 OF 39 INFODATA COPYRIGHT 2003 FHS Potsdam on STN
AN 1995(6):1418 INFODATA ON: 95-01418 (GMD-IZ)
TI A prototype rule-based front end expert system for integrity enforcement in relational data bases.
An application to the Naval Aircraft **Flight** Records **data base**.
AU Kamel, M. N. (Naval Postgraduate School, Monterey, CA, US)
SO Expert systems with applications. An international journal. New York, NY, US: Pergamon Press: (**1995**) V. 8 (1) p. 47-58, 4 figs., 10 refs.
ISSN: 0957-4174
CY United States
DT Journal

STN

TC (including examples)
LA English
AB An important goal of any **data base** system is to model the real world accurately in a manner consistent with the user's perception of the data. One way to accomplish the accuracy of information in relational **data bases** is through the enforcement of integrity constraints that represent rules pertaining to the organization. Unfortunately, most DBMSs today do not provide adequate integrity features to ensure the accuracy of data in their databases. This paper discusses the design and implementation of a prototype rule-based front end expert system for integrity enforcement for the Naval Aircraft **Flight** Record relational **data base**. The expert system includes a set of rules that define (a) the update operation that triggers the testing of an integrity rule, (b) a specification of the condition to be tested, and (c) the action to be taken in case of attempted violation. These rules are stored in a knowledge base, which the inference engine of the expert system uses to enforce **data base** integrity. (Autor)
CC K75 Artificial intelligence
W50 Regional planning, transportation
CT Expert system; Database; Relational; Prototype; Transportation; Database system; System environment
ST Luftverkehr

L9 ANSWER 36 OF 39 INFODATA COPYRIGHT 2003 FHS Potsdam on STN
AN 1993(10):1757 INFODATA ON: 93-01757 (GMD-IZ)
Call No.: ZK1 93-01030
TI Ethnographically-informed systems design for air traffic control.
AU Bentley, R.; Hughes, J. A.; Randall, D.
SO CSCW'92. Sharing perspectives. Proceedings of the conference on computer-supported cooperative work, Oct. 31 to Nov. 4, 1992, Toronto, Canada.
New York, NY, US: ACM Press: **1992**, p. 123-129 of 403 p., 3 figs., 12 refs.
Conference: CSCW'92, Toronto, CA, 1992.10.31-1992.11.04
ISBN: 0-89791-542-9
CY United States
DT Book article; Conference
LA English
AB This paper relates experiences of a project where an ethnographic study of air traffic controllers is being used to inform the design of the controllers' interface to the **flight data base** . We outline the current UK air traffic control system, discuss the ethnographic work we have undertaken studing air traffic control as a cooperative activity, describe some of the difficulties in collaboration between software developers and sociologists and show how the ethnographic studies have influenced the systems design process. Our conclusions are that ethnographic studies are helpful in informing the systems design process and may produce insights which contradict conventional thinking in systems design. (Autor)
CC S15 Cooperation
W50 Regional planning, transportation
S70 Social problems
CT Groupware; Systems research; Transportation; Project; Method; Social groups
Geogr.Term(s): UK
ST CSCW; Ethnographie; Luftverkehr

L9 ANSWER 37 OF 39 INFODATA COPYRIGHT 2003 FHS Potsdam on STN

EKD 09/11/2003

STN

AN 1993(5):690 INFODATA ON: 93-00690 (GMD-IZ)
TI The need for a new experimental environment for HCI research into multi-agent, real-time systems.
AU Scown, P. J. A.
SO Behaviour and information technology. An international journal on the human aspects of computing.
London, GB: Taylor and Francis: (**1992**) V. 11 (5) p. 281-292, 3 figs., zahlr. refs.
ISSN: 0144-929X
CY United Kingdom
DT Journal
TC (including examples)
LA English
AB Much of the current research in Human Computer Interaction (HCI) is carried out using experimental environments based on word processors, **database** search, or other conventional office automation. While this approach meets many needs it lacks the power required for investigating many unconventional situations. Complex multi-agent real-time systems are not typically found in offices and cannot easily be investigated in typical word processing or office automation contexts. The paper refers to four environments where multi-agency exists in a real-**time** environment: **flight** systems, plant control, telephone networks, and complex office systems. Consideration is given to the requirements of an alternative experimental environment which could allow HCI research to explore a wider range of issues (Autor).
CC T40 Office sector
W65 Computer science
S45 User problems
CT Man-machine communication; Office organization; User interface; Design; System environment; Testing
ST Realtime

L9 ANSWER 38 OF 39 INFODATA COPYRIGHT 2003 FHS Potsdam on STN
AN 1978(8):3112 INFODATA ON: 78-03112 (GMD-IZ)
TI An English language question answering system for a large relation database.
AU Waltz, D. L.
SO Communications of the ACM
Baltimore, MD, US: (**1978**) V. 21 (7) p. 526-539, 5 figs., 32 refs.
ISSN: 0001-0782
CY United States
DT Journal
TC (Product description)
LA English
AB By typing requests in English, casual user's will be able to obtain explicit answers from a large relational **database** of aircraft **flight** and maintenance **data** using a system called PLANES. The design and implementation of this system is described and illustrated with detailed examples of the operation of system components and examples of overall system operation. The language processing portion of the system uses a number of augmented transition networks, each of which matches phrases with a specific meaning, along with context registers (history keepers) and concept case frames; these are used for judging meaningfulness of questions, generating dialogue for clarifying partially understood questions, and resolving ellipsis and pronoun reference problems. Other system components construct a formal query for the relational **database**, and optimize the order of searching relations. Methods are discussed for handling vague or complex questions

and for providing browsing ability. Also included are discussions of important issues in programming natural language systems for limited domains, and the relationships of this system to others. (Autor)

CC RGA Computational linguistics. Speech recognition and processing
IS Information systems
K70; T05

CT Relation; Database; Command language; Language; Computational linguistics; Question answering system; Semantic network; Artificial intelligence; Information retrieval

ST Datenbanksystem, natuerliche Anfragesprache; PLANES

L9 ANSWER 39 OF 39 INFODATA COPYRIGHT 2003 FHS Potsdam on STN

AN 1976(10):2484 INFODATA ON: 76-02484 (GMD-IZ)
Call No.: UN4 76-0778

TI Natural language access to a large data bas.

AU Waltz, D. L.

CS University of Illinois, Coordinated Science Laboratory, Urbana-Champaign, US

SO Urbana, Ill., US.
1975, 32 p., 12 refs.
Ser.Title: = AD-A013578

DT Report

TC Practical

LA English

AB Describes accomplishments toward a natural language system which answers questions about a **data base** of naval aircraft maintenance and **flight data**. The system is designed to: (1) Allow a user to ask questions in natural English; (2) Provide answers to questions requiring averaging, statistical analysis, comparison of set data, and other complex functions as well as answers to simpler questions about specific **data base** records; (3) Provide aid in evaluating and predicting the causes of failures and of the need for excessive amount of maintenance work. (Autor)

CC ILE Information retrieval
RGA Computational linguistics. Speech recognition and processing
L30; K70

CT Database; Information retrieval; Question answering system; Language; English; Computational linguistics

ST Datenbank, Frage-Antwort-System

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        (c) 2003 The Gale Group
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        (c) 2003 PR Newswire Association Inc
File 813:PR Newswire 1987-1999/Apr 30
        (c) 1999 PR Newswire Association Inc
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        (c) 2003 The Gale Group
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        (c) 1999 The Gale Group
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        (c) 2003 San Jose Mercury News
File 148:Gale Group Trade & Industry DB 1976-2003/Sep 11
        (c)2003 The Gale Group
File  20:Dialog Global Reporter 1997-2003/Sep 11
        (c) 2003 The Dialog Corp.

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             OR MODIF? OR TRANSPOS? OR CHANG? OR TRANSMUT? OR METAMORPHOS?)
S2     189211   FLIGHT? ?(2N)(SCHEDULE? ? OR TIME OR TIMEFRAME? OR TIMETAB-
             LE? OR TIMING OR GATE OR NUMBER? ? OR ARRIV? OR DEPART? OR TA-
             KEOFF? OR LANDING? OR (GET OR GETTING)()(HERE OR THERE) OR DA-
             TA OR INFORMATION OR PARTICULARS OR DETAILS)
S3         20   S1 AND S2 AND (DATA()(BASE OR BASES OR BANK? ? OR SYSTEM? -
             OR NETWORK?) OR DATABASE OR DATABANK OR OODB OR ARCHIV? OR RE-
             POSITOR? OR DBMS OR RDBMS OR MAPPER? ?)
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S6         19   S1(5N)(DATA()(BASE OR BASES OR BANK? ? OR SYSTEM? OR NETWO-
             RK?) OR DATABASE OR DATABANK OR OODB OR ARCHIV? OR REPOSITOR?
             OR DBMS OR RDBMS OR MAPPER? ?)
S7          0   S6 AND FLIGHT? ?
S8         79   S1 AND FLIGHT? ? AND (DATA()(BASE OR BASES OR BANK? ? OR S-
             YSTEM? OR NETWORK?) OR DATABASE OR DATABANK OR OODB OR ARCHIV?
              OR REPOSITOR? OR DBMS OR RDBMS OR MAPPER? ?)
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S11        32   S10 NOT PY>1997
S12         8   S6 NOT PY>1997
S13         7   RD (unique items)
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ISSN: 0025-6501 JRNL CODE: MEG
WORD COUNT: 1808

ABSTRACT: Jet planes are equipped with 2 black boxes: the cockpit voice recorder and the **flight data** recorder. The cockpit voice recorder continuously collects data and retains a record of the most...

... an area microphone connected to overhead panels picks up ambient noise in the cockpit. The **flight data** recorder keeps a record of the most recent 25 hours of a plane's operating...
...TEXT: of the plane's mechanical systems, lie in the so-called black boxes, which collect **flight information** and are designed to survive the most violent of impacts.

Jet planes are equipped with two black boxes: the cockpit voice recorder and the **flight data** recorder. The cockpit voice recorder continuously collects data and retains a record of the most...

... lowering landing gear and positioning the flap handle," said Dennis Grossi, national resource specialist for **flight data** recorders at the National Transportation Safety Board (NTSB) in Washington, D.C.

The **flight data** recorder keeps a record of the most recent 25 hours of a plane's operating...

... unit, which formats the information and sends it to the recorder. In some cases, the **flight data** recorder receives raw analog **signals** and **converts** them to digital values before recording them.

Because most planes crash nose first, the black...

...of the early ones were painted black.
Both recorders use similar recording and packaging technologies. **Flight data** are recorded either by magnetic tape or in solid-state memory. The memory module is...

... with solid-state flash memory recorders, whose design is simpler and more durable. To recover **flight data** from these high-performance digital devices, the data are directly accessed from memory or, when...

...flash-memory chip and electronically linked together.

TESTING: CRASHING, CRUSHING, BURNING

The primary voice-and **flight - data** -recorder manufacturers in the United States are Universal Navigation Corp. in Tucson, Ariz., in conjunction with Microcomputer Electronics in Kirkland, Wash.; Loral **Data Systems** in Sarasota, Fla.; and AlliedSignal Inc. in Redmond, Wash. Each one builds to common requirements...

... survivability requirements for black boxes have become more rigorous over time. For example, voice and **flight - data** recorders built in the mid-'60s were designed to withstand impact shocks of about 100...tape-based units, some of which were produced in the mid-'60s. Since 1965, Loral **Data Systems** has produced 30,000 magnetic tape recorders, but it now produces solid-state recorders as...

...which can burn for 20 hours or more.

Between January 1966 and March 1992, 90 **flight** and voice- **data** recorders sustained fire damage from plane crashes, according to an NTSB report. In almost half...

5/3,K/2 (Item 1 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01553046 SUPPLIER NUMBER: 13077557 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Looking at the leaders '92. (top 50 global leaders in electronics industry have 3.6 percent sales growth) (Directory)
Daly, Virginia A.
Electronic News (1991), v38, n1942, pS1(18)
Dec 14, 1992
DOCUMENT TYPE: Directory ISSN: 1061-6624 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 29653 LINE COUNT: 03106

... weapon systems, radar, simulation and training.
MARKETS
Government, industrial, service organizations.
MAJOR FACILITIES
*Electr-Optical & **Data Systems** group, El Segundo, Calif.--Research, development and manufacturing of electro-optical sensors, fire control systems...chairman and chief executive; Alex Leblois, president, Bull HN Information Systems; Enrico Pesatori, president, Zenith **Data systems** ; Jacques Lebhar, chief financial officer; Roger Gallois, general counsel and secretary; Michel Bloch, Carlo Peretti...
...John G. Noonan, Richard M. Suech, Ronald E. Cuneo (HFPSI through three proxyholders).
SUBSIDIARY
ZENITH **DATA SYSTEMS**
2150 East Lake Cook Road Buffalo Grove, Ill. 60089
SALES ANALYSIS
Desktop and portable microcomputers...printed circuit boards and integrated circuits.
*Digital Telephone Systems division, Novato, Calif.--Digital voice and **data network** switches, PBXs and telephone sets. *Dracon division, Camarillo, Calif.--Voice-paging systems, subscriber-loop test...systems; mechanisms and pointing systems; space instruments and sensors; guidance for launch vehicles, on-board **data** processing; **flight** and engine control systems for manned spacecraft, precision inertial instruments, radiation-hardened memories; and guidance...motors, rotor/stator parts sets, spindle motors. *Litton Special Devices, Springfield, Pa.--Digital and analog **signal conversion** , communications interface equipment, aircraft navigation and engine instrumentation, engine performance computers, custom military display systems, distribution systems, electromechanical fractional horsepower actuators, **signal** data **converters** , navigation communication and search and rescue equipment. * **Data Systems** division, Agoura Hills, Calif.--Tactical command, control and communications systems, tactical data links, handheld digital...

...Litton Computer Services division, San Jose, Calif.-- Services and systems; computer programming and software development; **data systems** design; systems engineering and engineering services; operations analysis; technical communication programs; systems operational test and evaluation; turnkey **data systems** , logistic systems. Computer processing and associated services, batch processing, time sharing, remote job entry, on-line **database** management, computer programming.
*C. Plath division, Hamburg, Germany--Production of nautical and navigation equipment. *Poly...Systems, Colorado Springs, Colo. *Loral Conic, San Diego, Calif. *Loral Control Systems, Archbald, Pa. *Loral **Data Systems** , Sarasota, Fla. *Loral Defense Systems-Akron, Akron, Ohio. *Loral Defense Systems-Arizona, Phoenix, Ariz. *Loral...Kuwano Electrical

Instruments Co. Ltd., *Toho Electronics Co. Ltd., *Shizuoka Oki Electric Co. Ltd., *Oki **Data Systems** Co. Ltd., *Nagano Oli Electric Co. Ltd.

Telecommunications and Electronic Components--*Oki Ceramic Industry Co...Designs and markets high-productivity, general-purpose business software, including a relational fourth-generation language/ **database** management system.

SGS-Thomson Microelectronics Corp. Dallas, Tex.--Manufactures semiconductors and integrated circuits.

Thomson Broadcast...

5/3,K/3 (Item 2 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2003 The Gale Group. All rts. reserv.

01468511 SUPPLIER NUMBER: 11264277 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Directory of leaders. (Looking at the leaders 1991) (highest grossing computer and semiconductor industry companies) (directory)
Chilton's Electronic News, v37, n1876, p5A(27)
Sept 2, 1991
DOCUMENT TYPE: directory ISSN: 1054-6847 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 33957 LINE COUNT: 03616

... TACAN, VORTAC) for commercial, military and general aviation; new precision distance measuring equipment for Microwave **Landing** System; aircraft **flight** control systems and components for all Boeing series jetliners, the C-130 High Technology Test...

...high speed digital processing techniques to meet low probability of intercept signals threat; development of **data base** , decision support, and data fusion systems for intelligence analysis/assessment and C3I applications; design, integration...weapon systems, radar, simulation and training.

Markets

Government, industrial, service organizations.

MAJOR FACILITIES

Electro-Optical & **Data Systems** group, El Segundo, Calif.

Plant Activities: Research, development and manufacturing of electro-optical sensors, fire...Fort Lauderdale, Fla.

Plant Activities: Super-minicomputers and super-microcomputers for real-time computing, relational **database** management applications, and technical computing.

Controls & Composition division, Melbourne, Fla.

Plant Activities: Information processing and...video graphics workstation products.

Digital Telephone Systems division, Novato, Calif.

Plant Activities: Digital voice and **data network** switches, PBXs and telephone sets.

Dracon division, Camarillo, Calif.

Plant Activities: Voice-paging systems, subscriber...education, service organizations. HEADQUARTERS Old Orchard Road Armonk, N.Y. 10504

MAJOR FACILITIES

Enterprise Systems

Data Systems division, General Products division, Somers, N.Y.

Plant Activities: IBM System/370 architecture products, including... stator parts sets, spindle motors.

Litton Special Devices, Springfield, Pa.

Plant Activities: Digital and analog **signal conversion** , communications interface equipment, aircraft navigation and engine instrumentation, engine performance computers, custom military display systems, distribution systems, electromechanical fractional horsepower actuators, **signal** data **converters** , navigation communication and search and rescue equipment.

Data Systems division, Van Nuys, Calif.

Plant Activities: Tactical command, control and communications

systems, tactical data links...

...Services division, San Jose, Calif.
Plant Activities: Services and systems; computer programming and software development; **data systems** design; systems engineering and engineering services; operations analysis; technical communication programs; systems operational test and evaluation; turnkey **data systems**, logistic systems. Computer processing and associated batch processing, time sharing, remote job entry, on-line **database** management, computer programming.
C. Plath division, Hamburg, Germany
Plant Activities: Advanced and conventional marine navigation...
Systems, Colorado Springs, Col.
Loral Conic, San Diego, Calif.
Loral Control Systems, Archbald, Pa.
Loral **Data Systems**, Sarasota, Fla.
Loral Defense Systems-Akron, Akron, O.
Loral Defense Systems-Arizona, Phoenix
Loral Electronic...Springs and Fort Collins, Col.
Plant Activities: Microelectronics engineering, research and manufacturing.
Subsidiary
Applied Digital **Data Systems** Inc., Hauppauge, N.Y.
Plant Activities: Engineering, research and manufacturing.
Foreign facilities
Scotland, West Germany...products for application across Unisys system platforms. Areas of focus include CASE and 4GL tools, **data base** management systems, **repository** system management, compilers, productivity tools and communication hardware and software products for the 2200 Series ...

5/3,K/4 (Item 1 from file: 624)
DIALOG(R)File 624:McGraw-Hill Publications
(c) 2003 McGraw-Hill Co. Inc. All rts. reserv.

0035939
Hughes APG-70 Radar Provides Enhanced F-15 Combat Capabilities
Aviation Week & Space Technology May 25, 1987; Pg 95; Vol. 126, No. 21
Journal Code: AW ISSN: 0005-2175
Dateline: Edwards AFB, Calif.
Word Count: 2,158 *Full text available in Formats 5, 7 and 9*

BYLINE:
William B. Scott

TEXT:
...of test targets has been increased from two to 12.

--Two new analog-to-digital **signal converters**. One is optimized for air-to-ground operation, discriminating between ground returns to provide 8 ...simplify servicing.

Most processors use a 30-megabyte hard disk drive, on which the weather **data base** occupies about 6 megabytes and is constantly being updated 24 hr. a day. Data are...
... may be called up that inserts current winds-aloft information into the calculations. Airplane-specific **flight** plans, using **data** stored by "N" number, are an option, and an "air carrier quality" flight plan capability ...

5/3,K/5 (Item 1 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2003 The Gale Group. All rts. reserv.

05591589 Supplier Number: 105461143 (USE FORMAT 7 FOR FULLTEXT)
Delta Air Lines joins Sabre Travel Network's DCA Three-Year Option; Sabre Travel Network gains three year commitment, broad access to Delta fares.
M2 Presswire, pNA
July 15, 2003
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 1122

... level and provides airlines with a wide range of services to market and sell their **flight** and fare **information** through the travel network of more than 56,000 travel agency locations worldwide. Sabre Travel...and provide a renewed commitment to support agents in several ways, added Stow. They also **signal** a **change** in the economics associated with GDS services for all parties -- airlines and agencies. As the...
DESCRIPTORS: Airlines **Database** industry
PRODUCT NAMES: 7375000 (**Database** Providers)

5/3,K/6 (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2003 The Gale Group. All rts. reserv.

07554846 SUPPLIER NUMBER: 15806959 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Beyond facilitating practices: price signaling and price protection clauses in the new antitrust environment.
Kattan, Joseph
Antitrust Law Journal, 63, n1, 133-151
Fall, 1994
ISSN: 0003-6056 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 8743 LINE COUNT: 00708

... the defendants' conduct and their admission that the purpose of the announcements had been to **signal** price **changes** to competitors, saying that it "necessarily" would have reached a different result had the announcements...routinely exchange fare and scheduling information for the legitimate purpose of writing tickets for connecting **flights** and coordinating **schedules** , to signal impending price increases to competitors and engage one another in negotiations over fare...

...changes available not only to other airlines but also to other subscribers of the computerized **data base** they maintained.(46) If the information disseminated through the reservation systems was of value to...

5/3,K/7 (Item 2 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2003 The Gale Group. All rts. reserv.

06813504 SUPPLIER NUMBER: 14522762 (USE FORMAT 7 OR 9 FOR FULL TEXT)
1993 R&D 100 awards: technology's brightest stars: these winners sparkle! (Research and Development magazine)
R & D, v35, n11, p22(29)
Oct, 1993
ISSN: 0746-9179 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 12635 LINE COUNT: 01133

... of chemical reactions.
On-line Instrument Systems Inc., Bogart, GA. Richard Desa.
* The TOF 1000 **Time** -of- **Flight** Mass Spectrometer brings new levels of sensitivity and selectivity to the task of environmental monitoring... million pixels) of a CCD mosaic with high-speed electronics and automated data processing and **archiving** .
If MACHOs contain dark matter, this system will detect a characteristic photometric signature. If no...time domain or only the frequency domain often is insufficient for a complete analysis of **signals**

that **change** frequency over time.
The Gabor Spectrogram represents a signal's power spectrum in a joint
...

5/3,K/8 (Item 3 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2003 The Gale Group. All rts. reserv.

06676628 SUPPLIER NUMBER: 14150856 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Radiology. (Contempo 1993)
Evens, Ronald G.
JAMA, The Journal of the American Medical Association, v270, n2, p259(2)
July 14, 1993
ISSN: 0098-7484 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 1576 LINE COUNT: 00132

... interpreted directly, which could reduce costs. This technology has been termed electronic radiology or picture **archiving** and communication systems. A standard format for electronic imaging (ACR-NEMA) was demonstrated recently at...JE, Drayer BP, Fram EK, et al. Carotid artery stenosis: clinical efficacy of two-dimensional **time** -of- **flight** MR angiography. Radiology. 1992;182:761-768.
6. Caplan LR, Wolpert SM. Angiography in patients...

...Radiology. 1991;181:641-645.
10. Ogawa S, Tank DW, Menon R, et al. Intrinsic **signal changes** accompanying sensory stimulation: functional brain mapping with magnetic resonance imaging. Proc Nail Acad Sci U...

5/3,K/9 (Item 4 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2003 The Gale Group. All rts. reserv.

05592946 SUPPLIER NUMBER: 12399671 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Manufacturers. (laser industry) (The 1992 Buyers Guide) (Directory)
Laser Focus World, v27, nSPEISS, p746(155)
Dec 15, 1991
DOCUMENT TYPE: Directory ISSN: 0740-2511 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT
WORD COUNT: 139277 LINE COUNT: 11434

... full color, real-time image processing. HRX[R] technology, with image Management Systems and Picture **Data Base** , is the basis for integrated systems in the medical imaging, security/surveillance and amusement park...cable assemblies, optical line terminating equipment, optical cables and Local Area Networks. Engineers and installs **data networks** and communication systems for industrial and military telecommunications applications. SALES OFFICE: Canstar, Wastborough, MA, USA...Manufactures electrostatic energy analyzers and channelplate charged-particle detectors for laser ionization studies. Also manufactures **time** -of- **flight** mass spectrometers and heat pipes.
Conax Buffalo Corp, (sub of IMI Americas Inc), 2300 Walden...
301-265-1646 mktg mgr, Valerie Hoffman; emp 98, s&e 5, 1975 Manufactures voice & **data** cable assemblies. Also available are switch boxes, modern multiplexers, cabling accessories, office equipment & supplies, tooling...
USA, 313-930-1800; The Systems Group, Cincinnati, OH, USA, 513-742-2700; Mid Southwest **Data Systems** , Richardson, TX, USA, 214-669-8231, Uniforce, Milpitas, CA, USA, 408-946-3864; R.C...H. Dreizen; emp 14, 1983 Manufactures variable resolution, image sequence acquisition, processing, display, transmission, and **archival** boards for PC/AT based imaging systems. Products are unique in their ability to acquire...eng, Mark L. Peterson; emp 15, s&e 6, 1987 Designs and develops custom laser **data systems** and laser diode-base solid-state transmitters. Designs and manufactures electronic and electro-optic equipment...

5/3,K/10 (Item 5 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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03121045 SUPPLIER NUMBER: 04683038 (USE FORMAT 7 OR 9 FOR FULL TEXT)
1987 marketing directory and buyer's guide. (buyers guide)
Defense Electronics, v19, p39(78)
March, 1987
DOCUMENT TYPE: buyers guide ISSN: 0278-3479 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT
WORD COUNT: 47722 LINE COUNT: 04140

... 818-812-1601 Product Line: Electro-optic, electro-acoustic, microwave sensor systems and real-time **data systems** for defense and earth resources programs. Field Offices/Divisions 2121 Academy Cr. Ste. 206 Colorado...989-7310 4977 Northcut Place, Suite 114 Dayton, OH 45414 513-278-7351

Ampex Corp. **Data Systems** Div. 401 Broadway, MS 10-15 Redwood City, CA 94063-3199 Karen Calderone 415-367...software system development for C.sup.3.I programs. Emphasis on communication interfaces, message processing, **data base** applications, security; EW, penetration aids, weapon system design/performance.

Canadian Astronautics Ltd. 1050 Morrison Dr...Globe Park Industrial Estate Marlow Bucks, S17 1YA England Ray Morris 44-06284-6030

Chorus **Data Systems** 6 Continental Blvd. Merrimack, NH 03054 Roy Clites 603-424-2900 Product Line: Optical disc...8848 Product Line: Microwave communications filters, coaxial, waveguide, preselectors, wavemeters, diplexers and resonant cavities.

Colorado **Data Systems** Inc. 3301 W. Hampden Ave. Unit C Englewood, CO 80110 Louis J. Klahn Jr. 303...processors, multilevel secure communications processors, encoders: 1027-MAC-Key management, time and attendance systems, OAS, **DBMS** , turn-key systems, badge readers, protocol convertors.

Computing Devices Co. P.O. Box 8508 Ottowa...Offices/Divisions P.O. Box 471 Milwaukee, WI 53201 George Quinn 414-768-3810

Delta **Data Systems** Corp. 8310 Guilford Rd. Columbia, MD 21046 Robert Wainer 301-290-6400 Product Line: Tempest...simulation; wargaming; maintenance training; videodisc systems; LAN applications; ILS planning; training management systems; documentation systems; **DBMS** design; decision support systems, and computer-based training. Field Offices/Divisions 1806 Route 35 Ocean...command and control, electronic warfare, aircraft maintenance and modification, guidance, navigation and control, communications and **data systems** . Field Offices/Divisions Garland Division P.O. Box 660023 Dallas, TX 75266-0023 M.G...general applications. Analog and digital multiplexers/demultiplexers. Error detection and correction systems. Field Offices/Divisions **Data Systems** Div. P.O. Box 3041 Sarasota, FL 33578 R. Painter 813-371-0811 Weston Controls...and data modem, programmable communications controller, intercom systems, audio matrix switches and path panels.

Grumman **Data Systems** Corp. 1111 Stewart Ave. Bethpage, NY 11714 Tom Kane 516-575-5449 Product Line: Provide...

...advanced research studies and produces state-of-the-art information processing, communication satellite networks, terrestrial **data networks** /tracking, telemetry and C.sup.3.1 Aerospace, for worldwide information technology market. Field Offices...902-466-7491 Product Line: Anti-submarine warfare systems: sonobuoys and bathythermographs, towed arrays. Ocean **data systems** data collection platforms and satellite transmitters, HF communications antennas and HF sounding systems. Field Offices...N. Coyle 613-820-9720 Product Line: Tacan navigation beacons, shipboard integrated communication system (SHINCOM), **flight data** recorders, crash position indicators.

Leitch Video Ltd. 10 Dyas Rd. Don Mills, Ontario M3B 1V5...Salato 703-552-3012 Product Line: Electro-optical sensors and laser communications

equipment.
Litton Industries **Data Systems** Div. 8000 Woodley Ave. Van Nuys, CA 91409 818-902-4000 Product Line: Tactical communications...

...988-2191 Product Line: Aircraft modications and maintenance; electronic warfare systems integration and installation; trainers; **flight data** recorders; international aircraft programs; logistics support. Field Offices/Divisions Lockheed Support Systems, Inc. 1600 E...Alexandria, VA 22314 Dennis L. Regan 703-823-0300 Product Line: A fourth-generation intelligent **DBMS** with enhanced applications generator. Fully supports ad-hoc query/retreive. Pre-configured linkages, decision support...Product Line: UNIX-based, highly available 32-bit parallel computer family. Multi-user throughput for **database** management, software development, simulation, and C.sup.3.1 applications.
Sermed Inc. 10967 Via Frontera...

...and UHF, ground-based marine direction finders, ship and shore-based DF operator trainers, meteorological **data systems** , IR/electro-optical components and systems.
Shakespeare Co. Electronics and Fiberglass Div. P.O. Box... large-scale real-time and industrial turnkey systems, software engineering, communication systems, business applications and **data base** management systems.
System Research Labs, Inc. Electronic Warfare Center 2800 Indian Ripple Rd. Dayton, OH...Richard J. Coon, III 408-371-9400 Product Line: Development, integration and support of tactical **data systems** for and over-the-horizon targeting. Emphasis is placed on the development of software using...Washington, D.C. 20011 Bruce Crowley 202-882-8464 Product Line: Signal isolators, clocking distribution, **signal** level **conversion** , cable drivers and receivers.
Vibra-Metrics, Inc. 1014 Sherman Ave. Hamden, CT 06514 Tom Goldman...

5/3,K/11 (Item 6 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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02836803 SUPPLIER NUMBER: 04120853 (USE FORMAT 7 OR 9 FOR FULL TEXT)
1986 marketing directory and buyers' guide; valuable, easy reference to the products and services of defense electronics manufacturers.
Defense Electronics, v18, p71(62)
Feb, 1986
ISSN: 0278-3479 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 54719 LINE COUNT: 04883

... PMTs, RF power tubes, klystrons, Geiger-Mueller tubes, X-ray tubes, microchannel plates.
Ampex Corp.
Data Systems Div. 401 Broadway, MS 10-15 Redwood City, CA 94063 (415)367-2758 Field Offices...windows, vents and filters, TEMPEST testing, FCC testing, application engineering, shielding tapes and laminates.
Chorus **Data Systems** 6 Continental Blvd. Merrimack, NH 03054 Lisa Plourde (603)424-2900 Product Line: The PC...984-8848 Product Line: Microwave communications filter, coaxial, waveguide, preselectors, wavemeters, diplexers, resonant cavities.
Colorado **Data Systems** , Inc. 3301 W. Hampden Ave., Unit C Englewood, CO 80110 Louis Klahn (307)762-1640...voltage power supplies, high voltage transformers and isolation transformers, precision and high-voltage capacitors.
Delta **Data Systems** Corp. 1765 Business Center Dr. Reston, VA 22090 (703)450-7300 Field Offices/Divisions Federal...airborne radar; man-pack radar; IFF processing; C.sup.3 systems; VLF communications.
Eaton Corp. **Data Systems** Services Div. 5875 Green Valley Circle Culver City, CA 90230 (213)215-0853 Field Offices...819-1644 Inframetrics Inc. 12 Oak Park Dr. Bedford, MA 01730 (617)275-8990 Elbit **Data Systems** Ltd. P.O. Box 111 Windsor SLA 4UX, England (7535) 53216 Elbit S.A.R...

Borehamwood Hertsfordshire WD6 1RX, England Capt. Barrie Blakeley (+44) 1 953 2030 Field Offices/Divisions **Data Systems** Div. Andy J. Bell (+44) 1 906 6478 Commercial Products Div. Peter Lane (+44) 1...

...support for large-scale C3 systems, C.sup.3 systems, automated test/diagnostic systems, GESCAN **data base** search and message handling system, re-entry systems.

General Instrument Corp.

Govt. Systems Div. 600...111 Raven, Spacecraft, training devices, electronic equipment and subcontract, engineering, modification and overhaul services.

Grumman **Data Systems** Corp. 1111 Stewart Ave. Bethpage, NY 11714 (516)575-5449 Field Offices/Divisions 6862 Elm...installation, checkout, complete logistics support and training for international military and commercial clients.

Litton Industries,

Data Systems Div. 8000 Woodley Ave. Van Nuys, CA 91409 (818)902-4000 Field Offices/Divisions 490...

...Line: Servo-assemblies for commercial and military aircraft and ships; flight instrumentation; digital and analog **signal conversion** and indicating equipment, including PPIs and digital-to-synchro converter. Shaft position encoders; synchros, and...

...Line: Aircraft modification and maintenance; electronic warfare systems installation; communication systems integration; trainers and flight **data recorders** ; international aircraft facilities and programs.

Lockheed-California Co. P.O. Box 551 Burbank, CA 91520...Loral Corp. 600 Third Ave. New York, NY 10016 (212)697-1105 Field Offices/Divisions **Data Systems** 9020 Balboa Ave San Diego, CA 92123 William Kirk (619)297-0411 Electronic Systems Ridge...Pryor (904)863-6268 Field Offices/Divisions Radar Systems William T. Pryor (904)863-6218 **Data Systems** F.R. Andrews (904)863-6238 Vertical Launching System Div. Len Mattox (904)244-9662...David Hwy. Hayes Blvdg. #1006 Washington, DC J.P. Thompson (703)920-3644 Product Line: **Signal** data **converters** and control systems, submarine navigation and attack plotters, militarized color graphic display systems, satellite command...Systems Ltd. 0705 486391 Product Line: V/UHF airborne communications, radio relay and telemetry links, **flight data** recording, radar altimeters, IFF/SSR airborne/shipborne/ground. Major UK contributor, EW and weapon systems... tape drive, 8-inch 80MB and 14-inc 300MB Winchester drive, and security management system. **Data base** management systems, mil-sec. computers.

Scientific-Atlanta, Inc. Washington Business Park 5100-J Philadelphia Way...and UHF, ground-based. Marine direction finders; ship and shore-based DF operator trainers. Meteorological **data systems** , IR/electro-optical components and systems.

Severe Environment Systems

Company (SESCO) 20151 Nordhoff St. Chatsworth...large scale real time and industrial turnkey systems, software engineering, communication systems, business applications and **data base** management systems.

Systematics General Corp. 1606 Old Ox Rd. Sterling, VA 22170 (703)471-2200...Hwy., #901 Arlington, VA 22202 Sid Rowlett Product Line: Development, integration and support of tactical **data systems** for C.sup.3.I and over-the-horizon targeting. Emphasis is placed on development ...Pl. N.W. Washington, DC 20011 (202)882-8464 Product Line: Signal isolators, clocking distribution, **signal** level **conversion** , cable drivers and receivers.

Vibra-Metrics, Inc. 1014 Sherman Ave. Hamden, CT 06514 S.A...

5/3,K/12 (Item 7 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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02319805 SUPPLIER NUMBER: 03628292 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Seventh annual marketing directory and buyers' guide; a valuable, easy

reference guide to defense electronics manufacturers, products and services. (illustration)

Defense Electronics, v17, p58(84)
Feb, 1985
DOCUMENT TYPE: illustration ISSN: 0278-3479 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT
WORD COUNT: 49994 LINE COUNT: 04244

... camera tubes, discrete semicondustors, custom hybrids and leadless hybrid devices, charge coupled devices. Ampex Corp. **Data Systems** Div. 401 Broadway, MS 10-15 Redwood City, CA 94063 Karen Calderone 415-367-2758 ...single-sided. Airborne radar. RF instruments: automated test systems, frequency synthesizers and signal generators. Colorado **Data Systems** , Inc. 3301 W. Hampden Ave., Unit C Englewood, CO 0110 Louis J. Klahn, Jr. 303...computer systems, guidance and navigation systems and armament systems for military and space applications. Delta **Data Systems** Corp. 1765 Business Center Dr. Reston, Va 22090 Robert A. Wainer 703-450-7300 Field...and telcom, gate arrays, CCD imaging devices, transistor and diodes, hnybrids and microprocessors. Fairchild Weston **Data Systems** Div. PO Box 3041 Sarasota, FL 33578 G. Prozzo 813-371-0811

Product Line: Instrumentation...solid-state imaging systems; C.sup.3 CM systems; weapon fuzing systems and payloads; telemetry **data systems** & recorders. Farrand Controls 99 Wall St. Valhalla, NY 10595 914-761-2600 Inductosyn International Corp...military communication and observation satellites and sutomated test/diagnostic systems; information management systems; the GESCAN **data base** search and message handling system; and re-entry systems. General Instrument Corp. Govt. Systems Div...111 Raven, Spacecraft, training devices, electronic equipment and subcontract, engineering, modification and overthaul services. Grumman **Data Systems** Corp. 1111 Stewart Ave. Bethpage, NY 11714 Joseph Stump 516-575-5449 Field Offices/Divisions...Space & Communications Gp. PO Box 92919 Los Angeles, CA 90009 213-648-4676 Electro-Optical & **Data Systems** Gp. PO Box 902 El Segundo, CA 90245 213-616-7006 Missile Systems Gp. 8433...installation, checkout, complete logistics support and training for international military and commercial clients. Litton Industries, **Data Systems** Div. 8000 Woodley Ave. Van Nuys, CA 91409 213-781-8211 Field Offices/Divisions 490...

...Line: Servo assemblies for commercial and military aircraft and ships; flight instrumentation; digital and analog **signal conversion** and indicating equipment, including PPIs and digital-to-synchro converter. Shaft position encoders, synchros, and...

...Product Line: Aircraft modification and maintenance; electronic warfare systems installation; communication systems integration; trainers and **flight data** recorders; international aircraft facilities and programs. Lockheed-California Co., Inc. 2055 Hollywood Way Burbank, CA...5555 Randtron Systems 130 Constitution Dr. Menlo Park, CA 94025 Ted Tucker 415-326-9500 **Data Systems** /Conic 9020 Balboa Ave. San Diego, CA 92123 Bill Kirk 619-279-0411 Instrumentation 8401...645 Anchors St. Ft Walton Beach, FL 32548 904-863-6218 Field Offices/Divisions Digital **Data Systems** 645 Anchors St. Ft. Walton Beach, FL 32548 904-863-6238 Vertical Launching Systems Div...703-920-3644 Aqidneck Industrial Park Middletown, RI 02840 401-849-8003

Product Line: Military **signal** data **converters** ; secure voice wide band encryption equipments; Militarized high resolution color raster graphics display systems for...tape drive, 8-inch 80MB and 14-inch 300MB Winchester drive, and security management system. **Data base** management systems, mil-sec. computers. Scientific-Atlanta, Inc. Washington Business Park 5100-J Philadelphia Way...

...Vincent Liardet 021-29-98-73

Product Line: Aviation and marine direction finder systems; meteorological **data systems** , infrared electro-optical equipment; and railroad defect detection and information systems. Shakespeare Co. PO Box ...Pi. N.W. Washington, DC 20011 202-882-8464

Product Line: Signal isolators, clocking distribution, **signal** level **conversion** , cable drivers and receivers. vibra-Metrics, Inc. 385 Putnam Ave. Hamden , CT 06517 203-288...

EKD September 11, 2003

10/TI,AA,AN/1 (Item 1 from file: 15)
DIALOG(R)File 15:(c) 2003 ProQuest Info&Learning. All rts. reserv.

00969250 96-18643
Inside the black box

10/TI,AA,AN/2 (Item 1 from file: 275)
DIALOG(R)File 275:(c) 2003 The Gale Group. All rts. reserv.

01682300 SUPPLIER NUMBER: 15373224
Video offers the big picture; capture boards bring full motion on demand to LANs and desktops. (use of LAN-based video by the National Museum of Aviation, the US Navy and Texas Medical Center) (includes related article on MPEG compression and a glossary of desktop video and compression terms) (Buyers Guide)

10/TI,AA,AN/3 (Item 2 from file: 275)
DIALOG(R)File 275:(c) 2003 The Gale Group. All rts. reserv.

01553046 SUPPLIER NUMBER: 13077557
Looking at the leaders '92. (top 50 global leaders in electronics industry have 3.6 percent sales growth) (Directory)

10/TI,AA,AN/4 (Item 3 from file: 275)
DIALOG(R)File 275:(c) 2003 The Gale Group. All rts. reserv.

01468511 SUPPLIER NUMBER: 11264277
Directory of leaders. (Looking at the leaders 1991) (highest grossing computer and semiconductor industry companies) (directory)

10/TI,AA,AN/5 (Item 1 from file: 624)
DIALOG(R)File 624:(c) 2003 McGraw-Hill Co. Inc. All rts. reserv.

00828238
Low-Level Collision Avoidance Tested

10/TI,AA,AN/6 (Item 2 from file: 624)
DIALOG(R)File 624:(c) 2003 McGraw-Hill Co. Inc. All rts. reserv.

0035939
Hughes APG-70 Radar Provides Enhanced F-15 Combat Capabilities

10/TI,AA,AN/7 (Item 3 from file: 624)
DIALOG(R)File 624:(c) 2003 McGraw-Hill Co. Inc. All rts. reserv.

0007282
Collins Incorporates 14 CRT Displays Into Starship 1's Advanced Cockpit

10/TI,AA,AN/8 (Item 1 from file: 636)
DIALOG(R)File 636:(c) 2003 The Gale Group. All rts. reserv.

05591589 Supplier Number: 105461143
Delta Air Lines joins Sabre Travel Network's DCA Three-Year Option; Sabre Travel Network gains three year commitment, broad access to Delta fares.

10/TI,AA,AN/9 (Item 2 from file: 636)
DIALOG(R)File 636:(c) 2003 The Gale Group. All rts. reserv.

05504527 Supplier Number: 98567427
The Hidden Cost in the Lack of ATC Safety Regulation.

10/TI,AA,AN/10 (Item 3 from file: 636)
DIALOG(R)File 636:(c) 2003 The Gale Group. All rts. reserv.

03393898 Supplier Number: 46983924
NASA: New collision avoidance system helps helicopter pilots

10/TI,AA,AN/11 (Item 1 from file: 621)
DIALOG(R)File 621:(c) 2003 The Gale Group. All rts. reserv.

01065299 Supplier Number: 40300423
NEW ARINC 429 INTERFACE CONVERTERS ARE RTCA/DO-160 QUALIFIED

10/TI,AA,AN/12 (Item 1 from file: 16)
DIALOG(R)File 16:(c) 2003 The Gale Group. All rts. reserv.

10008418 Supplier Number: 90570933
A sampling of EW simulators. (Technology Survey).(Directory)

10/TI,AA,AN/13 (Item 2 from file: 16)
DIALOG(R)File 16:(c) 2003 The Gale Group. All rts. reserv.

01845693 Supplier Number: 42336464
LITTON

10/TI,AA,AN/14 (Item 1 from file: 148)
DIALOG(R)File 148:(c)2003 The Gale Group. All rts. reserv.

15650094 SUPPLIER NUMBER: 97822726
Group members. (AOC Corporate Member Profiles).(Directory)

10/TI,AA,AN/15 (Item 2 from file: 148)
DIALOG(R)File 148:(c)2003 The Gale Group. All rts. reserv.

14665865 SUPPLIER NUMBER: 86438995
Defense Contracts.(includes DRS Technologies receives cost-plus-fixed fee contract)(Brief Article)

10/TI,AA,AN/16 (Item 3 from file: 148)
DIALOG(R)File 148:(c)2003 The Gale Group. All rts. reserv.

14619167 SUPPLIER NUMBER: 86648262
TR100/2002. (Mit's Magazine of Innovation: Technology Review).

10/TI,AA,AN/17 (Item 4 from file: 148)
DIALOG(R)File 148:(c)2003 The Gale Group. All rts. reserv.

09037290 SUPPLIER NUMBER: 18779183
Design and tribology of pseudo-contact recording heads.(Cover Story)

10/TI,AA,AN/18 (Item 5 from file: 148)
DIALOG(R)File 148:(c)2003 The Gale Group. All rts. reserv.

08124425 SUPPLIER NUMBER: 17389671
Plastics technology: manufacturing handbook & buyers' guide 1995/96.(Buyers

Guide)

10/TI,AA,AN/19 (Item 6 from file: 148)
DIALOG(R)File 148:(c)2003 The Gale Group. All rts. reserv.

07554846 SUPPLIER NUMBER: 15806959
Beyond facilitating practices: price signaling and price protection clauses in the new antitrust environment.

10/TI,AA,AN/20 (Item 7 from file: 148)
DIALOG(R)File 148:(c)2003 The Gale Group. All rts. reserv.

07552012 SUPPLIER NUMBER: 16340444
SIGINT/DF systems of the next century. (signal intelligence; direction finding) (Cover Story)

10/TI,AA,AN/21 (Item 8 from file: 148)
DIALOG(R)File 148:(c)2003 The Gale Group. All rts. reserv.

07190757 SUPPLIER NUMBER: 15149916
Simulators. (electronic warfare simulators) (EW Reference & Source Guide: Survey Section)

10/TI,AA,AN/22 (Item 9 from file: 148)
DIALOG(R)File 148:(c)2003 The Gale Group. All rts. reserv.

06813504 SUPPLIER NUMBER: 14522762
1993 R&D 100 awards: technology's brightest stars: these winners sparkle! (Research and Development magazine)

10/TI,AA,AN/23 (Item 10 from file: 148)
DIALOG(R)File 148:(c)2003 The Gale Group. All rts. reserv.

06781820 SUPPLIER NUMBER: 14233470
1993 supplier capabilities section. (Directory)

10/TI,AA,AN/24 (Item 11 from file: 148)
DIALOG(R)File 148:(c)2003 The Gale Group. All rts. reserv.

06676628 SUPPLIER NUMBER: 14150856
Radiology. (Contempo 1993)

10/TI,AA,AN/25 (Item 12 from file: 148)
DIALOG(R)File 148:(c)2003 The Gale Group. All rts. reserv.

06507513 SUPPLIER NUMBER: 14363527
Endogenous creditor seniority and external debt values.

10/TI,AA,AN/26 (Item 13 from file: 148)
DIALOG(R)File 148:(c)2003 The Gale Group. All rts. reserv.

06411809 SUPPLIER NUMBER: 13527729
A sampling of EW simulators. (electronic warfare) (includes directory of electronic warfare simulator suppliers)

10/TI,AA,AN/27 (Item 14 from file: 148)
DIALOG(R)File 148:(c)2003 The Gale Group. All rts. reserv.

05592946 SUPPLIER NUMBER: 12399671
Manufacturers. (laser industry) (The 1992 Buyers Guide) (Directory)

10/TI,AA,AN/28 (Item 15 from file: 148)
DIALOG(R)File 148:(c)2003 The Gale Group. All rts. reserv.

05206854 SUPPLIER NUMBER: 10830843
International economic linkages and the international debt situation.

10/TI,AA,AN/29 (Item 16 from file: 148)
DIALOG(R)File 148:(c)2003 The Gale Group. All rts. reserv.

05204292 SUPPLIER NUMBER: 10905027
A giant step forward in helicopter simulation. (McDonnell Douglas Corp.'s McDonnell Douglas Helicopter Co. develops sophisticated helicopter flight **simulator)**

10/TI,AA,AN/30 (Item 17 from file: 148)
DIALOG(R)File 148:(c)2003 The Gale Group. All rts. reserv.

05100579 SUPPLIER NUMBER: 09858689
Modern airborne early warning radars.

10/TI,AA,AN/31 (Item 18 from file: 148)
DIALOG(R)File 148:(c)2003 The Gale Group. All rts. reserv.

04828852 SUPPLIER NUMBER: 08891792
Diagnostic interface. (includes related articles and close-up looks at various technologies)(Automotive Electronics for the '90s, part 1)

10/TI,AA,AN/32 (Item 19 from file: 148)
DIALOG(R)File 148:(c)2003 The Gale Group. All rts. reserv.

04081192 SUPPLIER NUMBER: 07601160
PCs capture Neptune in real time. (real-time images of the planet)

10/TI,AA,AN/33 (Item 20 from file: 148)
DIALOG(R)File 148:(c)2003 The Gale Group. All rts. reserv.

03121045 SUPPLIER NUMBER: 04683038
1987 marketing directory and buyer's guide. (buyers guide)

10/TI,AA,AN/34 (Item 21 from file: 148)
DIALOG(R)File 148:(c)2003 The Gale Group. All rts. reserv.

02966907 SUPPLIER NUMBER: 04353267
Army banks on Joint STARS for AirLand battle management.

10/TI,AA,AN/35 (Item 22 from file: 148)
DIALOG(R)File 148:(c)2003 The Gale Group. All rts. reserv.

02836803 SUPPLIER NUMBER: 04120853
1986 marketing directory and buyers' guide; valuable, easy reference to the products and services of defense electronics manufacturers.

10/TI,AA,AN/36 (Item 23 from file: 148)

DIALOG(R)File 148:(c)2003 The Gale Group. All rts. reserv.

02319805 SUPPLIER NUMBER: 03628292
Seventh annual marketing directory and buyers' guide; a valuable, easy reference guide to defense electronics manufacturers, products and services. (illustration)

10/TI,AA,AN/37 (Item 24 from file: 148)
DIALOG(R)File 148:(c)2003 The Gale Group. All rts. reserv.

02166811 SUPPLIER NUMBER: 03335479
Bubbles bursting with military potential.

10/TI,AA,AN/38 (Item 25 from file: 148)
DIALOG(R)File 148:(c)2003 The Gale Group. All rts. reserv.

01882219 SUPPLIER NUMBER: 02994638
Advanced digital combat control systems for submarines.

10/3,K/1 (Item 1 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2003 ProQuest Info&Learning. All rts. reserv.

00969250 96-18643
Inside the black box
O Connor, Leo
Mechanical Engineering v117n1 PP: 72-74 Jan 1995
ISSN: 0025-6501 JRNL CODE: MEG
WORD COUNT: 1808

ABSTRACT: Jet planes are equipped with 2 black boxes: the cockpit voice recorder and the **flight** data recorder. The cockpit voice recorder continuously collects data and retains a record of the most recent 30 minutes. Microphones mounted on the **flight** crew's headsets record conversations among crew members and between crew members and air traffic ...

... an area microphone connected to overhead panels picks up ambient noise in the cockpit. The **flight** data recorder keeps a record of the most recent 25 hours of a plane's...
TEXT: ON SEPTEMBER 8, 1994, USAir **Flight** 427, a Boeing 737-300, nose-dived 6000 feet into thick woods near Pittsburgh, killing...

... of the plane's mechanical systems, lie in the so-called black boxes, which collect **flight** information and are designed to survive the most violent of impacts.

Jet planes are equipped with two black boxes: the cockpit voice recorder and the **flight** data recorder. The cockpit voice recorder continuously collects data and retains a record of the most recent 30 minutes. Microphones mounted on the **flight** crew's headsets record conversations among crew members and between crew members and air traffic...

... lowering landing gear and positioning the flap handle," said Dennis Grossi, national resource specialist for **flight** data recorders at the National Transportation Safety Board (NTSB) in Washington, D.C.

The **flight** data recorder keeps a record of the most recent 25 hours of a plane's...

... speed and altitude, transmit signals to data buses distributed throughout the aircraft. The buses send **flight** signals to a data acquisition unit, which formats the information and sends it to the recorder. In some cases, the **flight** data recorder receives raw analog **signals** and **converts** them to digital values before recording them.

Because most planes crash nose first, the black...

...of the early ones were painted black.

Both recorders use similar recording and packaging technologies. **Flight** data are recorded either by magnetic tape or in solid-state memory. The memory module...

... with solid-state flash memory recorders, whose design is simpler and more durable. To recover **flight** data from these high-performance digital devices, the data are directly accessed from memory or...

...flash-memory chip and electronically linked together.

TESTING: CRASHING, CRUSHING, BURNING

The primary voice-and **flight** -data-recorder manufacturers in the United States are Universal Navigation Corp. in Tucson, Ariz., in conjunction with Microcomputer Electronics in Kirkland, Wash.; Loral **Data Systems** in

Sarasota, Fla.; and AlliedSignal Inc. in Redmond, Wash. Each one builds to common requirements...

... survivability requirements for black boxes have become more rigorous over time. For example, voice and **flight** -data recorders built in the mid-'60s were designed to withstand impact shocks of about...

... When the Boeing 747 came on line in 1969, the data recorder monitored only five **flight** parameters: speed, heading, g-forces, altitude, and engine operation. Modern data recorders can log more... pressures underwater.

FROM MAGNETIC TAPE TO SOLID STATE

In 1989, Universal Navigation introduced its first **flight** recorder, which used Mylar, a magnetic-tape recording medium. "To build a recorder that satisfied...

... for 10 hours, means airlines will switch to solid-state recorders. The bulk of the **flight** recorders now in use are tape-based units, some of which were produced in the mid-'60s. Since 1965, Loral **Data Systems** has produced 30,000 magnetic tape recorders, but it now produces solid-state recorders as...

...which can burn for 20 hours or more.

Between January 1966 and March 1992, 90 **flight** and voice-data recorders sustained fire damage from plane crashes, according to an NTSB report...

...was either damaged or destroyed. Solid-state recorders will likely boost the survival rate of **flight** recorders to greater than 90 percent, said Hummel of Microcomputer Electronics.

In the near future...

10/3,K/2 (Item 1 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2003 The Gale Group. All rts. reserv.

01682300 SUPPLIER NUMBER: 15373224 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Video offers the big picture; capture boards bring full motion on demand to LANs and desktops. (use of LAN-based video by the National Museum of Aviation, the US Navy and Texas Medical Center) (includes related article on MPEG compression and a glossary of desktop video and compression terms) (Buyers Guide)
Crowley, Aileen
PC Week, v11, n19, p95(2)
May 16, 1994
DOCUMENT TYPE: Buyers Guide ISSN: 0740-1604 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 795 LINE COUNT: 00064

TEXT:
...server systems to extend LAN-based video to applications such as information kiosks and shared **repositories** of application-development resources.
... transmission over the network.
The video-capture cards in users' client PCs decompress the video **signal** and **convert** it from digital to analog form for display. Compression is essential because of the vast...
...Renaissance is helping The National Museum of Aviation in Ottawa to create an on-line **database** of full-motion video and audio clips for use by museum visitors and scholars.
"Like...

...on-demand system accessible via kiosks, museum visitors can view footage of antique planes in **flight** , for example. Previously, these resources were locked away in the museum's **archives** and were not available to the general public.

The video application is driven by Starlight...

...resources that otherwise couldn't be displayed, such as film clips of antique planes in **flight** .

10/3,K/3 (Item 2 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2003 The Gale Group. All rts. reserv.

01553046 SUPPLIER NUMBER: 13077557 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Looking at the leaders '92. (top 50 global leaders in electronics industry have 3.6 percent sales growth) (Directory)
Daly, Virginia A.
Electronic News (1991), v38, n1942, pS1(18)
Dec 14, 1992
DOCUMENT TYPE: Directory ISSN: 1061-6624 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 29653 LINE COUNT: 03106

... weapon systems, radar, simulation and training.

MARKETS

Government, industrial, service organizations.

MAJOR FACILITIES

*Electr-Optical & **Data Systems** group, El Segundo, Calif.--Research, development and manufacturing of electro-optical sensors, fire control systems...chairman and chief executive; Alex Leblois, president, Bull HN Information Systems; Enrico Pesatori, president, Zenith **Data systems** ; Jacques Lebhar, chief financial officer; Roger Gallois, general counsel and secretary; Michel Bloch, Carlo Peretti...
...John G. Noonan, Richard M. Suech, Ronald E. Cuneo (HFPSI through three proxyholders).

SUBSIDIARY

ZENITH **DATA SYSTEMS**
2150 East Lake Cook Road Buffalo Grove, Ill. 60089

SALES ANALYSIS

Desktop and portable microcomputers...printed circuit boards and integrated circuits.

*Digital Telephone Systems division, Novato, Calif.--Digital voice and **data network** switches, PBXs and telephone sets. *Dracon division, Camarillo, Calif.--Voice-paging systems, subscriber-loop test...computer sciences.

MARKETS

Government and industrial, consumers, service organizations.

MAJOR FACILITIES

Space & Aviation Systems

*Commercial **Flight** Systems group Air Transport Systems division and Business Commuter Aviation Systems division, Phoenix and Glendale, Ariz.; Coon Rapids, Minn.--Automatic **flight** control systems, electronic cockpit displays, **flight** management systems, **flight** reference centers, navigation surveillance and warning systems, inertial reference systems, air-data computers, communications systems...
...mounted display and sighting systems.

*Defense Avionics Systems division, Albuquerque, N.M., Phoenix, Ariz.--Automatic **flight** control systems, electronic cockpit display systems, digital mapping systems, mission management subsystems, cockpit systems integration...

...and pointing systems; space instruments and sensors; guidance for launch vehicles, on-board data processing; **flight** and engine control systems for manned spacecraft, precision inertial instruments, radiation-hardened memories; and guidance...motors, rotor/stator parts sets, spindle motors.

*Litton Special Devices, Springfield, Pa.--Digital and analog **signal conversion** , communications interface equipment, aircraft navigation and engine instrumentation, engine performance computers, custom military display systems, distribution systems, electromechanical fractional horsepower actuators, **signal** data **converters** , navigation communication and search and rescue equipment. * **Data Systems** division, Agoura Hills, Calif.--Tactical command, control and communications systems, tactical data links, handheld digital...

...and designators. *Litton Systems Canada Ltd. division, Etobicoke, Ontario--Inertial navigation systems, airborne surveillance radar, **flight** inspection systems, LED, liquid crystal and CRT avionic displays, tactical data management systems, ship command...

...Litton Computer Services division, San Jose, Calif.-- Services and systems; computer programming and software development; **data systems** design; systems engineering and engineering services; operations analysis; technical communication programs; systems operational test and evaluation; turnkey **data systems** , logistic systems. Computer processing and associated services, batch processing, time sharing, remote job entry, on-line **database** management, computer programming.

*C. Plath division, Hamburg, Germany--Production of nautical and navigation equipment. *Poly...Systems, Colorado Springs, Colo. *Loral Conic, San Diego, Calif. *Loral Control Systems, Archbald, Pa. *Loral **Data Systems** , Sarasota, Fla. *Loral Defense Systems-Akron, Akron, Ohio. *Loral Defense Systems-Arizona, Phoenix, Ariz. *Loral...Kuwano Electrical Instruments Co. Ltd., *Toho Electronics Co. Ltd., *Shizuoka Oki Electric Co. Ltd., *Oki **Data** . **Systems** Co. Ltd., *Nagano Oli Electric Co. Ltd.

Telecommunications and Electronic Components--*Oki Ceramic Industry Co...mechanisms, navigation equipment. Systems markets Marine navigation equipment, missile guidance and control equipment, digital electronic **flight** systems and systems integration.

Funded Research markets Equipment design, feasibility studies, test and measurement.

MARKETS...

...Collins Commercial Avionics Cedar Rapids, Decorah, Manchester and Mason City, Iowa; LaMelbourne, Fla. -- Communications, navigation, **flight** control, pulse, weather radar, tactical navigation systems, cockpit management systems, and avionics systems integration.

Telecommunications...mission operations support for Space Station Freedom and other NASA Johnson Space Center advanced space **flight** programs; advanced spacecraft and space systems including Strategic Defense systems; design, development, fabrication, assembly, test...

...and upgrades for the B-1B bomber; modifying C-130H aircraft into AC-130U Gunships; **flight** test evaluation on the X-31 EFM (Enhanced Fighter Maneuverability) program; member of the National...and silicon semiconductors, tubes, circuits, components.

Joint Ventures

Commercial electronic components: SGS Thomson Microelectronics (IRI). **Flight** electronics: Sextant Avionique (Aerospatiale). Underwater acoustics: Sonar Systems (Ferranti International).

U.S. Thomson-CSF Inc...Designs and markets high-productivity, general-purpose business software, including a relational fourth-generation language/ **database** management system.

SGS-Thomson Microelectronics Corp. Dallas, Tex.--Manufactures semiconductors and integrated circuits.

Thomson Broadcast...

10/3,K/4 (Item 3 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01468511 SUPPLIER NUMBER: 11264277 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Directory of leaders. (Looking at the leaders 1991) (highest grossing computer and semiconductor industry companies) (directory)
Chilton's Electronic News, v37, n1876, p5A(27)
Sept 2, 1991
DOCUMENT TYPE: directory ISSN: 1054-6847 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 33957 LINE COUNT: 03616

... commercial, military and general aviation; new precision distance measuring equipment for Microwave Landing System; aircraft **flight** control systems and components for all Boeing series jetliners, the C-130 High Technology Test...

...high speed digital processing techniques to meet low probability of intercept signals threat; development of **data base** , decision support, and data fusion systems for intelligence analysis/assessment and C3I applications; design, integration...weapon systems, radar, simulation and training.

Markets

Government, industrial, service organizations.

MAJOR FACILITIES

Electro-Optical & **Data Systems** group, El Segundo, Calif.

Plant Activities: Research, development and manufacturing of electro-optical sensors, fire...Fort Lauderdale, Fla..

Plant Activities: Super-minicomputers and super-microcomputers for real-time computing, relational **database** management applications, and technical computing.

Controls & Composition division, Melbourne, Fla.

Plant Activities: Information processing and...video graphics workstation products.

Digital Telephone Systems division, Novato, Calif.

Plant Activities: Digital voice and **data network** switches, PBXs and telephone sets.

Dracon division, Camarillo, Calif.

Plant Activities: Voice-paging systems, subscriber...consumers, service organizations. HEADQUARTERS Honeywell Plaza Minneapolis, Minn. 55408

MAJOR FACILITIES

Space & Aviation Systems

Commerical

Flight Systems group

Air Transport Systems division and Business Commuter Aviation Systems division, Phoenix and Glendale, Ariz.; Coon Rapids, Minn.

Plant Activities: Automatic **flight** control systems, electronic cockpit displays, **flight** management systems, **flight** reference centers, navigation surveillance and warning systems, inertial reference systems, air-data computer, communications systems...

...group

Military Avionics division, Minneapolis; Clearwater, Fla.

Plant Activities: Laser inertial navigation and guidance systems, **flight** controls, inertial sensors, radar altimeters, automatic test systems, helmet-mounted display and sighting systems.

Defense Avionics Systems division, Albuquerque, N.M.

Plant Activities: Automatic **flight** control systems, electronic cockpit display systems, **flight** reference systems, cockpit systems integration and unmanned vehicle electronics.

Electro-Optics division, Lexington, Marlboro and...

...Calif.; Herndon, Va.

Plant Activities: Training devices and systems, visual systems, naval combat systems, operational **flight** training and simulator systems.

Space Systems group

Space & Strategic Avionics division, Clearwater, Fla.

Plant Activities: Guidance systems for launch and reentry vehicles,

flight and engine control systems for manned spacecraft, precision components for strategic missiles, on-board data...education, service organizations. HEADQUARTERS Old Orchard Road Armonk, N.Y. 10504

MAJOR FACILITIES

Enterprise Systems

Data Systems division, General Products division, Somers, N.Y.

Plant Activities: IBM System/370 architecture products, including... stator parts sets, spindle motors.

Litton Special Devices, Springfield, Pa.

Plant Activities: Digital and analog **signal conversion** , communications interface equipment, aircraft navigation and engine instrumentation, engine performance computers, custom military display systems, distribution systems, electromechanical fractional horsepower actuators, **signal** data **converters** , navigation communication and search and rescue equipment.

Data Systems division, Van Nuys, Calif.

Plant Activities: Tactical command, control and communications systems, tactical data links...

...Litton Systems Canada Ltd. division, Etobicoke, Ontario

Plant Activities: Inertial navigation systems, airborne surveillance radar, **flight** inspection systems, LED, liquid crystal and CRT avionic displays, tactical data management systems, ship command...

...Services division, San Jose, Calif.

Plant Activities: Services and systems; computer programming and software development; **data systems** design; systems engineering and engineering services; operations analysis; technical communication programs; systems operational test and evaluation; turnkey **data systems** , logistic systems. Computer processing and associated batch processing, time sharing, remote job entry, on-line **database** management, computer programming.

C. Plath division, Hamburg, Germany

Plant Activities: Advanced and conventional marine navigation... Systems, Colorado Springs, Col.

Loral Conic, San Diego, Calif.

Loral Control Systems, Archbald, Pa.

Loral **Data Systems** , Sarasota, Fla.

Loral Defense Systems-Akron, Akron, O.

Loral Defense Systems-Arizona, Phoenix

Loral Electronic...Springs and Fort Collins, Col.

Plant Activities: Microelectronics engineering, research and manufacturing.

Subsidiary

Applied Digital **Data Systems** Inc., Hauppauge, N.Y.

Plant Activities: Engineering, research and manufacturing.

Foreign facilities

Scotland, West Germany...Melbourne, Fla.; Costa Mesa, Calif.; Decorah, Manchester and Mason City, La.

Plant Activities: Communications, navigation, **flight** control, pulse, weather radar, tactical navigation systems, cockpit management systems, and avionics systems integration.

TELECOMMUNICATIONS...

...Downey, Calif.; NASA Kennedy Space Center, Fla.; NASA Johnson Space Center, Houston, NASA Marshall Space **Flight** Center, Huntsville, Ala.

Plant Activities: Design, development, production, test and support of the NASA Space...products for application across Unisys system platforms. Areas of focus include CASE and 4GL tools, **data base** management systems, **repository** system management, compilers, productivity tools and communication hardware and software products for the 2200 Series ...

10/3,K/5 (Item 1 from file: 624)

DIALOG(R)File 624:McGraw-Hill Publications

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00828238
Low-Level Collision Avoidance Tested
Aviation Week & Space Technology February 3, 1997; Pg 58; Vol. 146, No. 5
Journal Code: AW ISSN: 0005-2175
Section Heading: HELI-EXPO '97 PREVIEW
Dateline: SEATTLE
Word Count: 446 *Full text available in Formats 5, 7 and 9*

BYLINE:
PAUL PROCTOR

TEXT:
NASA recently completed **flight** tests of a low-altitude collision avoidance system designed for military and certain civilian applications.

The low-cost system, designed to detect obstacles in and near the helicopter's **flight** path, uses a nose-mounted Honeywell 35-GHz. millimeter wave radar sensor (shown below, right...

... Honeywell radar system scans the area ahead of the helicopter and creates a constantly updated **database** of the terrain and any obstacles. A cockpit display can alert pilots to obstacles or...
... grid-panel display (shown above, right). Potential threats are shown in relation to direction of **flight** .

French avionics manufacturer Thomson-CSF developed and **flight** tested a similar system, called Romeo, a decade ago. It used the 90-94 GHz...

... other manufacturers are suitable for approach and landing, they are insufficient for general low-level **flight** operations, Zelenka said.

The NASA/Honeywell collision avoidance system, however, can detect hazardous terrain and...

... pilot to perform evasive maneuvers, Zelenka said. It also could work well with cockpits and **flight** procedures requiring automated warnings, he said.

To keep costs down, components from an existing Honeywell...

... 3-GHz. radar altimeter perform the sensor's transmit and receive functions. The radar's **signal** , **converted** to 35 GHz., is transmitted as a scanning pencil beam. A small, twist-reflector antenna with a 9-in.-dia. dish captures reflected echoes.

Flight tests were conducted in the NASA/U.S. Army UH-60 Rotorcraft Aircrew Systems Concepts Airborne Laboratory (Rascal), which is based at Ames. The **flight** tests were conducted over flat as well as moderately rugged terrain.

Military pilots often fly...

10/3,K/6 (Item 2 from file: 624)
DIALOG(R)File 624:McGraw-Hill Publications
(c) 2003 McGraw-Hill Co. Inc. All rts. reserv.

0035939
Hughes APG-70 Radar Provides Enhanced F-15 Combat Capabilities
Aviation Week & Space Technology May 25, 1987; Pg 95; Vol. 126, No. 21
Journal Code: AW ISSN: 0005-2175
Dateline: Edwards AFB, Calif.
Word Count: 2,158 *Full text available in Formats 5, 7 and 9*

BYLINE:
William B. Scott

TEXT:
... is scheduled for delivery to Eglin AFB, Fla., in June. An identical radar is being **flight** tested here in an F-15E to evaluate the system's

high-resolution ground map...

... significantly improving the opportunities for long-range detection, regardless of target orientation and direction of **flight** .

"We've warned everybody, though, that development of this mode is fraught with risk. It...of test targets has been increased from two to 12.

--Two new analog-to-digital **signal converters** . One is optimized for air-to-ground operation, discriminating between ground returns to provide 8 ...

...and Hughes engineers currently are working on several specialized modes.

Haynes Offers
PC-Based Weather,
Flight Plan System

New York--Low-cost, satellite-linked aviation weather and **flight** -planning system that can operate on a personal computer, with some special features, is being...simplify servicing.

Most processors use a 30-megabyte hard disk drive, on which the weather **data base** occupies about 6 megabytes and is constantly being updated 24 hr. a day. Data are...

... using three-letter identifiers, and detailed information on airport facilities may be instantly displayed. For **flight** planning, a preliminary plan may be called up, providing quick time and distance data calculated for no-wind conditions. On command, a general aviation **flight** plan may be called up that inserts current winds-aloft information into the calculations. Airplane-specific **flight** plans, using data stored by "N" number, are an option, and an "air carrier quality" **flight** plan capability is also optional.

Data are received at each user site from Satellite Business...

10/3,K/7 (Item 3 from file: 624)
DIALOG(R)File 624:McGraw-Hill Publications
(c) 2003 McGraw-Hill Co. Inc. All rts. reserv.

0007282
Collins Incorporates 14 CRT Displays Into Starship 1's Advanced Cockpit
Aviation Week & Space Technology September 23, 1985; Pg 149; Vol. 123, No. 12
Journal Code: AW ISSN: 0005-2175
Dateline: Cedar Rapids, Iowa
Word Count: 1,494 *Full text available in Formats 5, 7 and 9*

BYLINE:
Philip J. Klass

TEXT:
... innovative as the aircraft itself, with 14 cathode ray tube displays replacing almost all conventional **flight** instruments and warning lights.

Collins is responsible for the design of the aircraft's complete avionics system, including cockpit displays and the **flight** control system, encompassing approximately 80 line replaceable units, working under the direction of Beech.

This...
...allow the Starship 1 to be flown by a single pilot or a two-person **flight** crew.

It also enabled Collins to provide an integrated cockpit display system that is more...

... flexibility offered by computer-driven "smart" electronic displays has been exploited by Collins to simplify **flight** operation of the aircraft.

For example, barometric altitude is displayed on a 4 4-in...

...cursor to show desired speed.

Radar altitude is shown in digital format on the horizon/ **flight** director display until the aircraft descends below 1,000 ft. At that time a round...

... hydraulic pressure, loss of electrical generator and bleed air," Mineck said. These only distract the **flight** crew from the primary problem, he added.

The Starship 1 system is "smart enough to...
... the type previously used with the Collins Pro Line of business aircraft avionics.

Alternatively, the **flight** crew can ...communications and short-range radio navigation aids, ADF and transponder code, this unit enables the **flight** crew to select navigation waypoints for use with Vortac stations, or an inertial or Omega...

...they become available, Mineck said.

This systems control display unit also contains a worldwide navigation **data base** of navigation-aid locations/frequencies which can be updated every 28 days by means of...

...that serves many subsystems.

The Control Central contains four power supplies and four input/output **signal** concentrators/ **converters** for quad-redundant reliability. Dual computers are used for redundancy.

The net result has been...
...will recover that cost via sales of the aircraft.

The new system has been under **flight** test by Collins for more than eight months on board what Mineck called a King...

...used on the King Air 300.

Collins recently delivered the first system to Beech for **flight** tests on the first production-version Starship 1.

CAPTION:
... displays to all but eliminate conventional instruments and many warning lights. Displays plus the associated **flight** control and management system were developed by Rockwell-Collins as an integrated system, with many...

10/3,K/8 (Item 1 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2003 The Gale Group. All rts. reserv.

05591589 Supplier Number: 105461143 (USE FORMAT 7 FOR FULLTEXT)
Delta Air Lines joins Sabre Travel Network's DCA Three-Year Option; Sabre Travel Network gains three year commitment, broad access to Delta fares.
M2 Presswire, pNA
July 15, 2003
Language: English Record Type: Fulltext

Document Type: Newswire; Trade
Word Count: 1122

... their own Web site and reservation offices. Additionally, this agreement includes access to fares and **flights** for Songa, Delta's new low-fare service.

Delta continues to position itself as an...level and provides airlines with a wide range of services to market and sell their **flight** and fare information through the travel network of more than 56,000 travel agency locations...and provide a renewed commitment to support agents in several ways, added Stow. They also **signal** a **change** in the economics associated with GDS services for all parties -- airlines and agencies. As the...of passengers carried and the leading U.S. carrier across the Atlantic, offers 5,734 **flights** each day to 444 destinations in 79 countries on Delta, ...founding member of SkyTeam, a global airline alliance that provides customers with extensive worldwide destinations, **flights** and services.

For more information, please go to delta.com.

Statements in this release which...

DESCRIPTORS: Airlines Database industry
PRODUCT NAMES: 7375000 (**Database** Providers)

10/3,K/9 (Item 2 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2003 The Gale Group. All rts. reserv.

05504527 Supplier Number: 98567427 (USE FORMAT 7 FOR FULLTEXT)
The Hidden Cost in the Lack of ATC Safety Regulation.
Air Safety Week, v17, n10, p0
March 10, 2003
Language: English Record Type: Fulltext
Document Type: Newsletter; Trade
Word Count: 2600

... a presentation given Feb. 5 at the North American Aviation Safety Conference hosted by the **Flight** Safety Foundation in Atlanta, Ga.)

Problem

The Federal Aviation Administration (FAA) has no formal, structured ...meetings of a new bureaucratic entity - the SOIT (satellite operations implementation team).

Improving the GPS **signal**

GPS, **modified** by SA, lacked the accuracy and integrity to guide an airplane safety to 200-ft...within the safety office, AVR. The SOIT is co-chaired by the person from the **flight** standards office and from the certification office, both within AVR. The SOIT was established as...B (automatic dependent surveillance - broadcast), which are planned for oceanic, domestic en route, and terminal **flight** .

But the need for the augmentations, WAAS and LAAS, is largely eliminated. The ...used to fly high accuracy tracks and curved final approached. This is true but unpersuasive. **Flight** management systems with basic GPS can fly any high accuracy track and intercept an ILS... vulnerability as a sole means system may be viewed at http://www.navcen.uscg.gov/ **archive** /2001/Oct/FinalReport-v4.6.pdf)

Pitfalls of Air Traffic Control Privatization

By Prof. Elliott...

10/3,K/10 (Item 3 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2003 The Gale Group. All rts. reserv.

03393898 Supplier Number: 46983924 (USE FORMAT 7 FOR FULLTEXT)
NASA: New collision avoidance system helps helicopter pilots
M2 Presswire, pN/A
Dec 19, 1996

Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 617

RDATE:181296
NASA has conducted **flight** tests of a new collision avoidance radar system intended to help helicopter pilots fly more...

...Millimeter-Wave (MMW) Radar Forward Sensor is designed to detect obstacles in an aircraft's **flight** path and provides a cockpit display to help avoid them. Although developed for helicopters, the...

...enhanced vision" systems are acceptable for final approach and landing, they are insufficient for general **flight** operations, particularly helicopter missions and systems requiring automated warnings, according to Zelenka.
Military helicopter pilots...
...program originally had a military focus, some of the technological advances inherent for automating NOE **flight** have significant potential for civil applications as well, such as emergency medical service helicopters, conventional...

...search and rescue aircraft and helicopters serving unique roles, such as oil rig helicopter operators.
Flight tests of the collision avoidance system were recently conducted aboard the NASA/Army Rotorcraft Aircrew...

...Manager. "Our emphasis has been on affordability from the beginning," Almsted added. The radar altimeter **signal** is **converted** to 35 GHz and transmitted as a scanning, three-dimensional pencil-beam through a small twist-reflector type antenna measuring only nine inches in diameter.
Flight tests were conducted over flat and moderately rugged mountainous terrain. While airborne, the new radar system constructed a **database** of the terrain and obstacles it detected in the aircraft's **flight** path and produced a three- dimensional synthetic perspective grid panel display for the pilot. Zelenka...

10/3,K/11 (Item 1 from file: 621)
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)
(c) 2003 The Gale Group. All rts. reserv.

01065299 Supplier Number: 40300423 (USE FORMAT 7 FOR FULLTEXT)
NEW ARINC 429 INTERFACE CONVERTERS ARE RTCA/DO-160 QUALIFIED
News Release, pN/A
Feb 19, 1988
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 152

... ARINC 712 ADF
indicators. Model 5200M-1CP accepts serial data from a DADS (Digital Air **Data System**) and drives the TAS (True Air Speed) indicator.

Other models interface with the DME and MLS systems. These self-contained, remotely mountable units are **flight** proven and are ideal for retrofits when new digital systems must be connected to analog...
PRODUCT NAMES: 3662620 (**Signal Converters**)

10/3,K/12 (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2003 The Gale Group. All rts. reserv.

10008418 Supplier Number: 90570933 (USE FORMAT 7 FOR FULLTEXT)
A sampling of EW simulators. (Technology Survey).(Directory)

McGahan, Robert V.
Journal of Electronic Defense, v25, n8, p61(6)
August, 2002
Language: English Record Type: Fulltext
Article Type: Directory
Document Type: Magazine/Journal; Trade
Word Count: 5865

... category were The Aegis Technologies Group, Inc.; Ecc Corp. Raydon Corp.; AAI Corp.; BAE Systems, **Flight** Stimulation and Training, Inc.; Computer Science Corp.; Evans & Sutherland Computer Corp.; L-3 Communication Systems...

...form or conditioned by pre-processor. Such a preprocessor might, for instance, digitize an analog **signal** , **convert** a high frequency to a baseband frequency, rectify an AC **signal** , or **convert** one form of energy into another.

Simulator Categories

Radiated Signals. Some of the simulators described...

t&e, val, ot RF

CEESIIM Portable	des, r&d, t&e, val, ot RF	
Flight Line EW	des, r&d, t&e, val, ot RF	
MRES	t, t&e, ot...	

...900.8080;
email: mimif@bvr.co.il;
URL: www.bvrsystems.com

NA	r&d, in- **flight** training IR, UV, Laser, RS	
EDO Technical Services Operations, 254 E. Avenue K-4, Lancaster...5-40	RF(c+r), ot	
CEESIIM Portable	0.5-19	RF(c+r), ot
Flight Line EW	0.5-18	RF(c+r), ot
MRES	0.5-18	RF(c...

...CW, m, s, ot

CEESIIM Portable	a, CW, p, ot	a, CW, m, s, ot
Flight Line EW	a, CW, p, ot	a, CW, m, s, ot
MRES	all	all
PICO...d, RF(c+r), v,		ot
CEESIIM Portable	na	d, RF(c+r), v, ot
Flight Line EW	na	d, RF(c+r), v,
MRES	na	RF(r), ot
PICO AMES...2,048	to 5	
CEESIIM	to 8,192	to 8

CEESIIM Portable 128 to 1

Flight Line EW to 64 to 0.5

MRES 64 to 1

PICO AMES 64 to...

II na

AMES III na

CEESIIM multiple CEESIMS may be synched

CEESIIM Portable high fidelity

Flight Line EW high fidelity

MRES na

PICO AMES na

BAE Systems IEWS,
95 Canal Street...r std rack

CEESIIM r std rack

CEESIIM Portable d, port, r,s transit case

Flight Line EW d, port 50x15x27

MRES s na

PICO AMES d, r half rack

BAE...

...URL: www.amherst.com

AMES II na

AMES III na

CEESIIM na

CEESIIM Portable na

Flight Line EW na

MRES na

PICO AMES na

BAE Systems IEWS,
95 Canal Street,
Nashua...pulse to pulse sim

CEESIIM control computer, BITE, ot

CEESIIM Portable control computer, BITE, ot

Flight Line EW control computer, BITE, ot, to 2 RF channels

MRES MRES=Mobile Remote Emitter...

is used to evaluate

RF ECM techniques and missile ECCM in naval & airborne scenarios. Uses **flight** table for missiles and simulated targets.

SES (EO) — SES is used to evaluate EO CM and missile ED CCM. Uses **flight** table for missiles and simulated targets.

RUAG Aerospace,
Seetalstrasse 175, Emmen,
Switzerland CH 6032;
Bruno...
...fax;
bruno.raschle@ruag.com

RWSS — Radar-warning simulation software. All parameters progranimabie vis software **data base** . Graphical threat-emitter scenario presentation.

Sierra Research and
Integrated Defense
Technology Company,
485 Cayuga Road...

10/3,K/13 (Item 2 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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01845693 Supplier Number: 42336464 (USE FORMAT 7 FOR FULLTEXT)
LITTON
Electronic News (1991), p17A
Sept 2, 1991
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 1628

... stator parts sets, spindle motors.
Litton Special Devices, Springfield, Pa.
Plant Activities: Digital and analog **signal conversion** , communications interface equipment, aircraft navigation and engine instrumentation, engine performance computers, custom military display systems, distribution systems, electromechanical fractional horsepower actuators, **signal** data **converters** , navigation communication and search and rescue equipment.
Data Systems division, Van Nuys, Calif.
Plant Activities: Tactical command, control and communications systems, tactical data links...

...Litton Systems Canada Ltd. division, Etobicoke, Ontario
Plant Activities: Inertial navigation systems, airborne surveillance radar, **flight** inspection systems, LED, liquid crystal and CRT avionic displays, tactical data management systems, ship command...

...Services division, San Jose, Calif.
Plant Activities: Services and systems; computer programming and software development; **data systems** design; systems engineering and engineering services; operations analysis; technical communication

programs; systems operational test and evaluation; turnkey **data systems** , logistic systems. Computer processing and associated batch processing, time sharing, remote job entry, on-line **database** management, computer programming.

C. Plath division, Hamburg, Germany

Plant Activities: Advanced and conventional marine navigation...

10/3,K/14 (Item 1 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2003 The Gale Group. All rts. reserv.

15650094 SUPPLIER NUMBER: 97822726 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Group members. (AOC Corporate Member Profiles).(Directory)

Journal of Electronic Defense, 26, 2, 67(14)
Feb, 2003
DOCUMENT TYPE: Directory ISSN: 0192-429X LANGUAGE: English
RECORD TYPE: Fulltext
WORD COUNT: 15093 LINE COUNT: 01384

... warfare-systems officers.

* Test and EW Systems: AAI has a considerable heritage of developing innovative **flight** -line and depot-level test equipment.

* Unmanned Air Vehicles (UAVs.): AAI is the only US...

...simulation, and control; embedded and multiprocessor applications; real-time signal processing; and visual- and sensor- **database** development.

* Engineering Support, Inc. (ESI): ESI, a wholly owned subsidiary of AAI Corporation, provides logistic...CyberVillage Networkers, Inc. (CVNI), specializes in customized Internet/Intranet customer-service and knowledge-management applications; **database** management; simulation applications; **database** and **database** -interface development; online interactive games and ...range environments. ESL also provide integrated logistics support on a number of important programs including **flight** -line testing support for the UK Nemesis DIRCM system and EW support for the UK ...mix technologies allows KOR to produce highly capable and cost-effective simulation solutions, from simple **flight** -line GO/NO-GO test sets to ultra-wideband multi-channel systems that produce environments...operated (GOCO) EW test laboratory, 4) a 120x85x40 foot Anechoic Chamber, and 5) an extensive **Flight** Simulation Laboratory.

The Air Force Electronic Warfare Evaluation Simulator (AFEWES), is an internationally-recognized Electronic...to detect low level signals. RAS also operates a division, Rway Communications, that builds complex, **database** -driven Web sites and provides the full spectrum of data assurance.

ROHDE & SCHWARZ GMBH & CO...HIL labs, and applications for handheld computers. SimTech also supports installation, maintenance and repair of **flight** motion simulators.

SimTech - Excellence in Simulation and Test since 1983.

SIPPICAN, INC.

7 Bamabas Road...Recorders capture El/PRI (2Mbits/s HDB3 signals to disk for off-line analysis, forwarding. **archiving** or replay. Typical applications include surveillance, interception, evidence, protocol capture, **archiving** , fault diagnosis and testing.

High-Speed Data Recorders: LVDS recorders support serial data rates up...Capture Cards: Data capture cards enable users to develop custom solutions for surveillance, monitoring, recording, **archiving** , analysis and processing of EI/PRI (2Mbits/s HDB3), LVDS (up to 60 Mbits/s) and RS-422A (up to 15Mbits/s) **signals** .

Interface **Converters** : Custom interfacing and **signal conversion** products for data capture, monitoring and recorder interfacing applications. Interface converters cover DS3, E3, E2...well as aircraft modifications and ECM pods. SAI can provide modification of civil aircraft for **flight** -test support. SAI is owned and operated by its CEO, Robert L. Keller.

SYMETRICS INDUSTRIES...to environmental risk assessment. SRC is a

leader in ELINT and EW systems analysis, intelligence **database** development, customized ...areas of technology insertion, requirements definition, cost and operational effectiveness analysis, program initiation, management and **flight** test support. The company serves clients in tasks such as red teaming proposals, analysis of...

...planned and executed. The two principals, T Bear Larson and John Sciacca, have extensive operational, **flight** -test, and acquisition experience at all levels in the DoD.

TADIRAN ELECTRONIC SYSTEMS LTD.,

(a...fighter telemetry, intelligence gathering, electronic warfare, 1FF (Identification Friend or Foe), Range Safety Command Destruct/ **Flight** Termination and high-speed spinning DF (Direction Finding). TECOM antenna applications for the commercial market...

...sale bar code reading and hand-held scanners. SATCOM antenna applications include subsystems for in- **flight** passenger

10/3,K/15 (Item 2 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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14665865 SUPPLIER NUMBER: 86438995 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Defense Contracts.(includes DRS Technologies receives cost-plus-fixed fee contract)(Brief Article)
Defense Daily, 214, 42, NA
May 29, 2002
DOCUMENT TYPE: Brief Article ISSN: 0889-0404 LANGUAGE: English
RECORD TYPE: Fulltext
WORD COUNT: 1027 LINE COUNT: 00089

... Transfer System components, integration and installation. This effort will provide switching capability for Naval Tactical **Data System** electrical interfaces. Work will be performed in Anaheim, Calif., and is expected to be completed...Specific items on the WRA include five receiver exciter processors, six radar transmitters, and two **signal** data **converters** . Items on the SRA include five tube assemblies, four grid modulator assemblies, 10 multiplier assemblies...for military aircraft and ground stations; and engineering support for updating equipment software. Air Force **Flight** Test Center, Edwards Air Force Base, Calif., is the contracting activity (F04700-01-D-

10/3,K/16 (Item 3 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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14619167 SUPPLIER NUMBER: 86648262 (USE FORMAT 7 OR 9 FOR FULL TEXT)
TR100/2002. (Mit's Magazine of Innovation: Technology Review).
Technology Review (Cambridge, Mass.), 105, 5, 65(26)
June, 2002
ISSN: 1099-274X LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 19827 LINE COUNT: 01603

... chief executive officer, Expedia developed an award-winning algorithm that compares prices on billions of **flight** combinations and allows customers to find and buy the lowest fares. Barton now wants to...
ELIZABETH M. BELDING-ROYER AGE 27

TELECOMMUNICATIONS

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

Today's mobile **data networks** are spotty. If you're not within range of a transmitter or are cut off...central to its Galaxy project, producing software to recognize speech and interpret language, then deliver **database** information. He followed with Galaxy II--software that lets U.S. marines access information hands...

...Mercury. The system allows anyone to call the lab, speak to a computer and book **flights** on 23 airlines, as ...for far-flung applications: to improve Web searches for images, or for face recognition, video- **database** indexing or pharmaceutical R&D. But it was not clear any of these emerging markets...intelligent. His group's first success was a microelectromechanical switching device that routes fiber-optic **signals** without **converting** them ...fuel--and a disaster. That's what investigators suspect caused the 1996 explosion of TWA **Flight** 800. Electrical engineer Steven Shaw wants to make sure it doesn't happen again. While...

10/3,K/17 (Item 4 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2003 The Gale Group. All rts. reserv.

09037290 SUPPLIER NUMBER: 18779183 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Design and tribology of pseudo-contact recording heads.(Cover Story)
Hsia, Yiao-Tee; Donovan, Mark J.
Solid State Technology, v39, n9, p82(6)
Sep, 1996
DOCUMENT TYPE: Cover Story ISSN: 0038-111X LANGUAGE: English
RECORD TYPE: Fulltext
WORD COUNT: 3873 LINE COUNT: 00299

... When an air bearing is very compliant, it will take less force to alter the **flight** of the head. Compliance is accomplished by introducing a center pad at the trailing portion...its validity. Since pseudo-contact production drives were only introduced in May 1995, an extensive **database** of actual reliability information does not exist.
In the absence of a perfect accelerated wear...

...rpm, the friction value stays within a 0.1 gm band, but the acoustic emission **signal** dramatically **changes** within this range.
The rms AE signal shown in Fig. 4 has two maximums. The...

10/3,K/18 (Item 5 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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08124425 SUPPLIER NUMBER: 17389671 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Plastics technology: manufacturing handbook & buyers' guide 1995/96.(Buyers Guide)
Plastics Technology, v41, n8, pCOV(941)
August, 1995
DOCUMENT TYPE: Buyers Guide ISSN: 0032-1257 LANGUAGE: English
RECORD TYPE: Fulltext
WORD COUNT: 174436 LINE COUNT: 15187

... and sheathing, sheet extrusion, production of floor tiles and coverings, profiles, and seals.
BLACK CLAWSON **CONVERTING** MACHINERY CORP.
Complete processing lines for flat or embossed cast film, stretch wrap, extrusion coating...from 3/4- to 15-in. diam. and all L/D ratios; filters and screen **changers** , including slideplate, continuous and automatic types; strand dies, water baths, air strippers and pelletizers; underwater...screw compounding extruder built under license from Krauss-Maffei. (See Compounding, Mixing, Blending Systems.) (See **data** sheets pp. 105-107.)
K INC.
Blown film extrusion and converting equipment includes extruders, screws...Software package defines course geometry from part-definition input by operator or downloaded from a **database** . Ultrasonic bed cutter can be stand-alone or integrated with CPC-610 tape layer.

VENUS...continuous, reciprocating single-screw compounders mix and disperse thermoplastics and thermosets. Uses special profiled screw **flights** and rows of kneading teeth in the barrel section, plus a reciprocating screw action to...Continuous inventory monitoring of all ingredient throughputs is standard. Feed and control options include plantwide **data** acquisition and material-usage control with central microcomputer. Custom and proprietary systems include options such...uses CADDS-5 software with solid modeling as well as conventional surfacing from wire-frame **database** .

Complete mold-repair services. Machining services include NC machining, gun drilling, and jig grinding.

CLARICH...technology markets. CAD/CAM, CNC machining centers, multiturret lathes, and ultra-precision EDM. Maintains engineering **database** to manufacture spares and replacement parts at any time during the life of a mold...

...or rotary-table machines; 3-D type parts where part contour is available from CAD **database** ; and small and intricate parts. Design with Unigraphics II on Hewlett-Packard workstations and AutoCAD...
...Components/Systems.)

TREDEGAR MOLDED PRODUCTS CO.

Precision, high-production, multicavity molds for thermoplastics. Services include **database** transfer, CAD design, mold and moldbase construction, and inhouse sampling. Specializes in molds requiring complex ...capabilities supervises multiple machines and handles auxiliary equipment with optional integration module. CIMAC 8000 captures **data** for display in graphic or tabular form for on-line analysis. **Data** can be transmitted to a PC for preparation of reports on process history. User-programmable...

...information from each machine to host computer system and vice versa. Any data in system **database** can be displayed at machine-interface box with Barco data unit. Data-collection network can...computers. Data can be accessed through X-Windows, DDE-compliant systems (spreadsheets etc.), and relational **database** applications. SQL interface accesses AIM Historian data on PCs with open **database** connectivity (ODBC) software.

T.G. BRANDEN CORP.

Shotscope S9000 plantwide system provides real-time monitoring...

...customer service, financial, EDI, and shop-floor data-collection activities. Designed specifically for the relational **database** of the IBM AS/400, CMS/400 offers ease of use and simplicity for EDI...

...storage of upper and lower control limits and all process setpoint criteria in a relational **database** , which can be downloaded to each machine in the network. Process data are correlated with...

...integrated manufacturing, distribution, and financial-management software package for plastics processors. Written in Progress relational **database** and designed for "open systems" and "client/server" computing environments. Software runs on MS-DOS for engineers and managers. It can store data in Oracle's SQL relational **database** . WinSPC Network Manager can view up to 300 different processes running at multiple work centers... process variables.

INTERACTIVE INFORMATION SYSTEMS

Interactive software systems for complete business solutions use Oracle relational **database** management system. Products include CIIM (computer-interactive integrated manufacturing), CIID (computer-interactive integrated distribution), and...

...such as word processing, databases, and spreadsheets. Can also use data from manufacturing and operations **database** systems for enterprise-wide SQC reporting.

NWA Quality Monitor is a configurable plant-floor SPC...

...general ledger, and fixed-asset modules complete the system. RMS files

are used and common **data** -dictionary formats are provided for ease of use with all report writers. System is equipped...Complete plantwide data collection and SQC/SPC solutions can be implemented with Windows spreadsheets or **database** applications such as Lotus or Excel. Or with Production Process' PC-based system software, which...

...maintenance. Integrated software (from Stochos Inc.) provides comprehensive quality analysis and reporting and quality-tracking **database** to meet ISO 9000 requirements. Alternatively, data can be ported to any third-party SQC...

...regression, and autocorrelation.
SPC Direct real-time, on-line SPC monitoring and analysis package features **database** functionality, corrective actions, alarming, 128-input analysis in 32 SPC status fields, and easy-to...

...of process data to product quality measurements. Closed-loop SPC control functions available.
Quality Management **Database** System (QMDS) provides plant-wide solution based on ISO 9000 standards. Has complete documentation control...

...entries. System is compatible with MS-DOS, Novell Netware, and other networks. Incorporates Ingres Relational **Database** Manager. User interface is built on standard SQL (Structured Query Language), allowing user-formatted displays...

...fully integrated, modular manufacturing-planning and control system that uses CASE technology and a relational **database** manager to provide flexibility for customizing applications.
XRP-II spans the range of MRP II...

...control with machine monitoring/automated data collection. Base system includes Unix operating system, Unify relational **database** management system, XRP-II kernel, and Datalock and Datarite utilities for editing, query, and report...control, barrel-temperature control, and mold-temperature control, as well as alarming and SPC/SQC **data** collection.
ANAFAZE INC.
Offers multiple-loop control systems for thermoforming, extrusion, injection molding, and other...lines. Closed-loop puller or extruder control maintains wall thickness within the set range. Alarms **signal changes** that effect material thickness.
MTM SYSTEMS
The 2010 computer control system for blow molding and...temperature control. Melt-pressure control provides precise dimensional control. Thickness, O.D., width, and output **data** can be fed back to system for better control.
A single Farex M5E can handle...

10/3,K/19 (Item 6 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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07554846 SUPPLIER NUMBER: 15806959 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Beyond facilitating practices: price signaling and price protection clauses in the new antitrust environment.
Kattan, Joseph
Antitrust Law Journal, 63, n1, 133-151
Fall, 1994
ISSN: 0003-6056 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 8743 LINE COUNT: 00708

... the defendants' conduct and their admission that the purpose of the announcements had been to **signal** price **changes** to competitors, saying that it "necessarily" would have reached a different result had the

announcements...routinely exchange fare and scheduling information for the legitimate purpose of writing tickets for connecting **flights** and coordinating schedules, to signal impending price increases to competitors and engage one another in...

...changes available not only to other airlines but also to other subscribers of the computerized **data base** they maintained.(46) If the information disseminated through the reservation systems was of value to... ...and the concomitant lack of business justification) was readily apparent involved the occasional use of **flight** codes that on their face signaled that the fare posting was a retaliatory response to...

10/3,K/20 (Item 7 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2003 The Gale Group. All rts. reserv.

07552012 SUPPLIER NUMBER: 16340444 (USE FORMAT 7 OR 9 FOR FULL TEXT)
SIGINT/DF systems of the next century. (signal intelligence; direction finding) (Cover Story)
Herskovitz, Don
Journal of Electronic Defense, v17, n10, p39(8)
Oct, 1994
DOCUMENT TYPE: Cover Story ISSN: 0192-429X LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT
WORD COUNT: 3857 LINE COUNT: 00318

... receivers, a relatively new technology, perform signal processing using Bragg cells. In these cells, RF **signals** are **converted** into acoustic waves which are then sampled with light beams. AO receivers share the positive...millisecond. Air Force officials indicate that the three-year contract should produce a 100-channel **flight** -test system able to be cooled to operating temperature using a reliable Stirling cycle cryocooler...to the only transmitter location which could result in the observed reflections. The feature reference **data base** can be extracted from the digital terrain elevation data and digital cultural feature data, both...

10/3,K/21 (Item 8 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2003 The Gale Group. All rts. reserv.

07190757 SUPPLIER NUMBER: 15149916 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Simulators. (electronic warfare simulators) (EW Reference & Source Guide: Survey Section)
Journal of Electronic Defense, v17, n1, pS30(8)
Jan, 1994
ISSN: 0192-429X LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 1389 LINE COUNT: 00108

TEXT:
...chambers and test ranges; to testing of installed systems in ground-based settings, on the **flight** line or in airborne situations and on board naval vessels.
... form or conditioned by a preprocessor. Such a preprocessor might, for instance, digitize an analog **signal** , **convert** a high frequency to a baseband frequency, rectify an AC **signal** or **convert** one form of energy into another.
The outputs of an individual sensor or an array...

...or pristine, are collected at the central processor. Here, inputs from stored or real-time **data bases** , from operator inputs or from other processors are melded with the sensor outputs to produce...

10/3,K/22 (Item 9 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2003 The Gale Group. All rts. reserv.

06813504 SUPPLIER NUMBER: 14522762 (USE FORMAT 7 OR 9 FOR FULL TEXT)
1993 R&D 100 awards: technology's brightest stars: these winners sparkle! (Research and Development magazine)
R & D, v35, n11, p22(29)
Oct, 1993
ISSN: 0746-9179 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 12635 LINE COUNT: 01133

... reactions.
On-line Instrument Systems Inc., Bogart, GA. Richard Desa.
* The TOF 1000 Time-of- **Flight** Mass Spectrometer brings new levels of sensitivity and selectivity to the task of environmental monitoring... the aircraft is making a curved landing approach.
After more than 100 hours of in- **flight** operation, the NASA algorithm produced no false alarms, even with severe maneuvering.
The algorithm has...million pixels) of a CCD mosaic with high-speed electronics and automated data processing and **archiving** .
If MACHOs contain dark matter, this system will detect a characteristic photometric signature. If no...time domain or only the frequency domain often is insufficient for a complete analysis of **signals** that **change** frequency over time.
The Gabor Spectrogram represents a signal's power spectrum in a joint ...

10/3,K/23 (Item 10 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2003 The Gale Group. All rts. reserv.

06781820 SUPPLIER NUMBER: 14233470 (USE FORMAT 7 OR 9 FOR FULL TEXT)
1993 supplier capabilities section. (Directory)
Automotive Engineering, v101, n7, p105(69)
July, 1993
DOCUMENT TYPE: Directory ISSN: 0098-2571 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 23288 LINE COUNT: 02099

... developed for the rapid development of 3D free formed mathematical surface models available from Control **Data** **Systems** . The system decreases surface development time as well as increases surface model quality for both...

...companies on four continents and customer satisfaction has been tremendous," says Ron Myszkowski of Control **Data** **Systems** Americas Region Marketing.
One hundred percent of the new surface designs associated with the Lamborghini...the 1993 Pontiac Firebird takes off, Dow Plastics [dagger] plays a visible role in the **flight** plan. The sleek fenders, made using SPECTRIM* reaction moldable polymers, help give the all new...50th percentile crash test dummy. The system is packaged to permit modular expansion of the **data** **system** . The system provides sample rates up to 20,000 samples per second, per channel and...analysis/simulation, circuit reliability/calculation, control systems simulation, design capture systems, design variability assessment, engineering **database** management, engineering networks/gateways, finite element analysis, hybrid electronics design, hydraulic simulation, magnetic analysis, printed...operation, up to 64-channel capacity, 96dB dynamic range via 16-bit analog-to-digital **signal** **conversion** , and up to 68Gbit data storage capacity through the use of enhanced super-VHS helical...

10/3,K/24 (Item 11 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2003 The Gale Group. All rts. reserv.

06676628 SUPPLIER NUMBER: 14150856 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Radiology. (Contempo 1993)
Evens, Ronald G.
JAMA, The Journal of the American Medical Association, v270, n2, p259(2)
July 14, 1993
ISSN: 0098-7484 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 1576 LINE COUNT: 00132

... interpreted directly, which could reduce costs. This technology has been termed electronic radiology or picture **archiving** and communication systems. A standard format for electronic imaging (ACR-NEMA) was demonstrated recently at...BP, Fram EK, et al. Carotid artery stenosis: clinical efficacy of two-dimensional time-of- **flight** MR angiography. Radiology. 1992;182:761-768.
6. Caplan LR, Wolpert SM. Angiography in patients...

...Radiology. 1991;181:641-645.
10. Ogawa S, Tank DW, Menon R, et al. Intrinsic **signal changes** accompanying sensory stimulation: functional brain mapping with magnetic resonance imaging. Proc Nail Acad Sci U...

10/3,K/25 (Item 12 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2003 The Gale Group. All rts. reserv.

06507513 SUPPLIER NUMBER: 14363527 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Endogenous creditor seniority and external debt values.
Dooley, Michael; Stone, Mark R.
International Monetary Fund Staff Papers, v40, n2, p395(19)
June, 1993
ISSN: 0020-8027 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 5586 LINE COUNT: 00490

...AUTHOR ABSTRACT: 1980s. This paper argues that this was the revenue-maximizing response of governments to capital **flight** that drained the domestic financial "tax base" subject to indirect taxation. Empirical analysis indicates that...

TEXT:
...the fiscal approach. By viewing changes in payments to the different classes of creditors as **signals** of **changes** in seniority, we argue that not only the level but also the distribution of the...
... relative creditor standing was the cost-minimizing response of governments to internal and external capital **flight** that drained the domestic financial "tax base" subject to indirect taxation. A secondary objective of...

...69.5 52.9 46.4 37.2 31.5
Source: IMF World Economic Outlook **data base** .
In general, then, the market values of classes of credits reflect both an optimal intertemporal...was constrained by capital controls and other administrative restrictions. According to the measures of capital **flight** reported below, residents succeeded over time in replacing their government's liabilities with foreign assets...invested abroad to avoid the control of domestic authorities. The doubling of the stock of **flight** capital for the sample countries over the five years after 1982 suggests that financial repression...

...paid an increasing share of their available resources to foreign creditors. For most countries, capital **flight** increased from the early 1980s to 1987 or 1988 and then leveled off through 1989...

...to make large net payments to nonresidents that are financed by domestic borrowing. Moreover, capital **flight** , accelerating domestic inflation, and occasional outright default on domestic debt suggest that the pattern of... examined in column B. Both indicators of financial repression--CPI inflation and the stock of **flight** capital--appear to have a significant impact on debt prices, even after controlling for external...

...the market values of external debt. Furthermore, the t-statistics for the inflation and capital **flight** estimates indicate that market participants jointly consider financial repression and the size and distribution of...country desk officers; and all other series are from the confidential IMF World Economic Outlook **data base** . Derivation of payments to creditors is shown in the following table. All entries are in ...World Bank Economic Review, Vol. 6 (January 1992), pp. 55-69.

Dooley, Michael P., "Capital **Flight** : A Response to Differences in Financial Risks," Staff Papers, International Monetary Fund, Vol. 35 (1988 ...

10/3,K/26 (Item 13 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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06411809 SUPPLIER NUMBER: 13527729 (USE FORMAT 7 OR 9 FOR FULL TEXT)
A sampling of EW simulators. (electronic warfare) (includes directory of electronic warfare simulator suppliers)
Journal of Electronic Defense, v16, n1, p67(10)
Jan, 1993
ISSN: 0192-429X LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 1837 LINE COUNT: 00145

TEXT:
...chambers and test ranges; to testing of installed systems in ground-based settings, on the **flight** line or in airborne situations and on board naval vessels.
... form or conditioned by a preprocessor. Such a preprocessor might, for instance, digitize an analog **signal** , **convert** a high frequency to a baseband frequency, rectify an AC **signal** or **convert** one form of energy into another.
The outputs of an individual sensor or an array...

...or pristine, are collected at the central processor. Here, inputs from stored or real-time **data bases** , from operator inputs or from other processors are melded with the sensor outputs to produce...

10/3,K/27 (Item 14 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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05592946 SUPPLIER NUMBER: 12399671 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Manufacturers. (laser industry) (The 1992 Buyers Guide) (Directory)
Laser Focus World, v27, nSPEISS, p746(155)
Dec 15, 1991
DOCUMENT TYPE: Directory ISSN: 0740-2511 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT
WORD COUNT: 139277 LINE COUNT: 11434

... full color, real-time image processing. HRX[R] technology, with image Management Systems and Picture **Data Base** , is the basis for integrated systems in the medical imaging, security/surveillance and amusement park...cable assemblies, optical line terminating equipment, optical cables and Local Area Networks. Engineers and installs **data networks** and communication systems for industrial and military telecommunications applications. SALES OFFICE: Canstar, Wastborough, MA, USA...energy analyzers and channelplate charged-particle detectors for

laser ionization studies. Also manufactures time-of- **flight** mass spectrometers and heat pipes.
Conax Buffalo Corp, (sub of IMI Americas Inc), 2300 Walden... 301-265-1646 mktg mgr, Valerie Hoffman; emp 98, s&e 5, 1975 Manufactures voice & **data** cable assemblies. Also available are switch boxes, modern multiplexers, cabling accessories, office equipment & supplies, tooling... USA, 313-930-1800; The Systems Group, Cincinnati, OH, USA, 513-742-2700; Mid Southwest **Data Systems** , Richardson, TX, USA, 214-669-8231, Uniforce, Milpitas, CA, USA, 408-946-3864; R.C...H. Dreizen; emp 14, 1983 Manufactures variable resolution, image sequence acquisition, processing, display, transmission, and **archival** boards for PC/AT based imaging systems. Products are unique in their ability to acquire...3, 1983 Manufactures large aperture, light-weight optics for research and industry, including collimators for **flight** simulation, visual display, circuit board exposure, solar concentration and R&D. Service included slumping, annealing...eng, Mark L. Peterson; emp 15, s&e 6, 1987 Designs and develops custom laser **data systems** and laser diode-base solid-state transmitters. Designs and manufactures electronic and electro-optic equipment...

10/3,K/28 (Item 15 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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05206854 SUPPLIER NUMBER: 10830843 (USE FORMAT 7 OR 9 FOR FULL TEXT)
International economic linkages and the international debt situation.
Dittus, Peter; O'Brien, Paul S.; Blommenstein, Hans J.
OECD Economic Studies, n16, p133(36)
Spring, 1991
ISSN: 0255-0822 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 12932 LINE COUNT: 01074

... countries (per cent). 4. Change in output of OECD countries (per cent). Source: OECD Analytical **Data Bank** .
Nonetheless, at the time most analysts thought that the major debtors would be back to...

...indicators such as the ratio of debt to GNP or to exports are used to **signal changes** in credit-worthiness (3); this means that the denominators are expected to grow faster than...86. Since then, Mexico has embarked on significant structural changes, leading to a reversal of **flight** capital in 1989, whereas the macroeconomic situation in Brazil has worsened, and capital exports have...110 127 133 139
Actual 101 99 92 89
Source: Cline (1983) and OECD Analytical **Data Bank** .
Assumptions for domestic variables are also taken from Cline (1983). Four assumptions for the domestic...It would not be appropriate to view the derived capital exports figures solely as capital **flight** . Inter alia, it includes errors and omissions in the balance of payments, "legal" capital exports...

...debt share. Nevertheless, the capital export variable bears a certain resemblance to patterns of capital **flight** analysed in other studies.
Investment income payments and receipts are calculated as multiples of estimated...

10/3,K/29 (Item 16 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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05204292 SUPPLIER NUMBER: 10905027 (USE FORMAT 7 OR 9 FOR FULL TEXT)
A giant step forward in helicopter simulation. (McDonnell Douglas Corp.'s McDonnell Douglas Helicopter Co. develops sophisticated helicopter flight **simulator)**

Aerospace Engineering, v11, n6, p13(3)
June, 1991
ISSN: 0736-2536 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 1658 LINE COUNT: 00131

...forward in helicopter simulation. (McDonnell Douglas Corp.'s McDonnell Douglas Helicopter Co. develops sophisticated helicopter flight **simulator)**
... a major helicopter development contract is being competitively evaluated based on realtime simulation rather than **flight** demonstrations.
At MDHC's 3066 square-meter Combat Simulation and Systems Integration Division, there is...

...generation systems that display the terrain and adversaries.
To initialize the simulation, just prior to **flight** , the helicopter's initial position coordinates are entered into the visual **database** . The pilot then flies the aircraft by responding to visual queues projected onto the dome...

...microprocessor-based host computer.
The control laws represent the pilot/vehicle interfaces and transmit appropriate **signals** to **change** the position of the actuators that govern **flight** control deflections. This information is transmitted to the SYSTEM 100. Using a specially designed aerodynamic **flight** model developed by Bell Helicopter, the SYSTEM 100 analyzes the aerodynamic response of the helicopter...

...yields both high accuracy and high fidelity. In turn, this is directly attributable to realistic **flight** modeling which was validated by wind-tunnel tests on full-scale helicopter models.
By employing...

...DESCRIPTORS: Helicopter **flight** simulator...

10/3,K/30 (Item 17 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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05100579 SUPPLIER NUMBER: 09858689 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Modern airborne early warning radars.
Morchin, William C.; Johnston, Stephen L.
Microwave Journal, v34, n1, p30(12)
Jan, 1991
ISSN: 0192-6225 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 4179 LINE COUNT: 00333

... 6] On the E-3a system, there are 13 operator specialists and a four-member **flight** crew. The specialist work with multipurpose consoles (MPCs) and auxiliary display units (ADUs). The MPCs...

...individual symbols transmitting only sensor and target position information to target type, speed, direction of **flight** , bearing, mission (if friendly) and altitude. From these data, and from background pictorial information, such...signal is used to reduce the spectral spreading with DPCA. After pulse compression, the received **signals** are **converted** to in-phase and quadrature components. The in-phase and quadrature (I and Q) baseband **signals** are **converted** to 10-bit digital words, which provide 60 dB of dynamic range. The word rate...associated operating functions, their characteristics are shown to compare to and expand upon the statistical **data base** of characteristics available for the AEW radars.
The list includes radar operating frequency, when possible...

10/3,K/31 (Item 18 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB

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04828852 SUPPLIER NUMBER: 08891792 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Diagnostic interface. (includes related articles and close-up looks at various technologies)(Automotive Electronics for the '90s, part 1)
Allen, Tom; Heyler, Jack
Motor Age, v109, n9, p54(7)
Sept, 1990
ISSN: 0193-7022 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 3915 LINE COUNT: 00312

... is the natural progression of the hotline service. Several OE manufacturers already have sophisticated service **database** systems with computerized test equipment right in the service bay. Systems like GM's CAMS...

...driveability problems. The system also includes universal testers and meters that technicians traditionally use.
A **flight** recorder is used to locate driveability problems on the road, and can be used by...

...the touch of a button when the symptom occurs. The data picked up by the **flight** recorder can be stored and played back by the technician when the recorder is reconnected...road simulator like the one on the right, while you watch the screen for telltale **signal changes** .
There are many good oscilloscopes on the market. One such unit is the Tektronix 222...

...dealer, Tech-Net is unique for several reasons.
As the president and founder of Automotive **Data Systems** , Tecklenburg pretty much wrote the book on how a diagnostic hotline should operate. ...above-average technicians with hands-on experience, coupled with a state-of-the art information **database** . This information **database** includes factory bulletins and service information, but also benefits from the accumulated knowledge from technicians...

...passed along to other technicians.
In addition to the ongoing update of their service information **database** , Tecklenburg conducts after-hours autopsies on late-model vehicles to verify that the test parameters...

10/3,K/32 (Item 19 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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04081192 SUPPLIER NUMBER: 07601160 (USE FORMAT 7 OR 9 FOR FULL TEXT)
PCs capture Neptune in real time. (real-time images of the planet)
Sexton, Tara
PC Week, v6, n35, p27(2)
Sept 4, 1989
ISSN: 0740-1604 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 439 LINE COUNT: 00035

... image-compression hardware, Moller said. Used for instantaneous retrieval of pictures, PicturePower-HC boasts a **database** -management system that was used to catalog photographs transmitted by JPL.
The process of bringing...

...technology takes over. A Slow Scan Transceiver, developed by Colorado Video Inc., receives the microwave **signals** and **converts** them to sound, allowing them to be transmitted around the world via ordinary telephone lines...

...PC program allowed users for the first time to browse through the images in the **database** , select and display an image on a high-resolution

monitor, and then print the image...

...DESCRIPTORS: Space **flight** --
TRADE NAMES: Picturepower-HC (**Data base** management system...

10/3,K/33 (Item 20 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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03121045 SUPPLIER NUMBER: 04683038 (USE FORMAT 7 OR 9 FOR FULL TEXT)
1987 marketing directory and buyer's guide. (buyers guide)
Defense Electronics, v19, p39(78)
March, 1987
DOCUMENT TYPE: buyers guide ISSN: 0278-3479 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT
WORD COUNT: 47722 LINE COUNT: 04140

... 818-812-1601 Product Line: Electro-optic, electro-acoustic, microwave sensor systems and real-time **data systems** for defense and earth resources programs. Field Offices/Divisions 2121 Academy Cr. Ste. 206 Colorado...989-7310 4977 Northcut Place, Suite 114 Dayton, OH 45414 513-278-7351

Ampex Corp. **Data Systems** Div. 401 Broadway, MS 10-15 Redwood City, CA 94063-3199 Karen Calderone 415-367...Milwaukee, WI 53201 LeRoy J. Singleton 414-447-8200 Product Line: Airborne instruments; electromechanical and **flight** systems, air and ground CRT and medical displays, autopilots, and secure digital communication system.

ATAC...P.O. Box 328 Newtown, PA 18940-0328 Sales Dept. 215-968-4271 Product Line: **Flight** test instrumentation, including signal conditioning for frequency division multiplexing and time division multiplexing systems. Airborne...3333 T.J. Electronics 8823 N. Industrial Rd. Peoria, IL 61615-1584 309-693-3344 **Flight** Connector 8823 N. Industrial Rd. Peoria, IL 61615-1584 309-693-3355 Celmark Engineering 8823...

...software system development for C.sup.3.I programs. Emphasis on communication interfaces, message processing, **data base** applications, security; EW, penetration aids, weapon system design/performance.

Canadian Astronautics Ltd. 1050 Morrison Dr...Globe Park Industrial Estate Marlow Bucks, S17 1YA England Ray Morris 44-06284-6030

Chorus **Data Systems** 6 Continental Blvd. Merrimack, NH 03054 Roy Clites 603-424-2900 Product Line: Optical disc...8848 Product Line: Microwave communications filters, coaxial, waveguide, preselectors, wavemeters, diplexers and resonant cavities.

Colorado **Data Systems** Inc. 3301 W. Hampden Ave. Unit C Englewood, CO 80110 Louis J. Klahn Jr. 303...processors, multilevel secure communications processors, encoders: 1027-MAC-Key management, time and attendance systems, OAS, **DBMS** , turn-key systems, badge readers, protocol convertors.

Computing Devices Co. P.O. Box 8508 Ottowa...Offices/Divisions P.O. Box 471 Milwaukee, WI 53201 George Quinn 414-768-3810

Delta **Data Systems** Corp. 8310 Guilford Rd. Columbia, MD 21046 Robert Wainer 301-290-6400 Product Line: Tempest...simulation; wargaming; maintenance training; videodisc systems; LAN applications; ILS planning; training management systems; documentation systems; **DBMS** design; decision support systems, and computer-based training. Field Offices/Divisions 1806 Route 35 Ocean...command and control, electronic warfare, aircraft maintenance and modification, guidance, navigation and control, communications and **data systems** . Field Offices/Divisions Garland Division P.O. Box 660023 Dallas, TX 75266-0023 M.G...general applications. Analog and digital multiplexers/demultiplexers. Error detection and correction systems. Field Offices/Divisions **Data Systems** Div. P.O. Box 3041 Sarasota, FL 33578 R. Painter 813-371-0811 Weston Controls...

...connector backshells, shielded interconnect systems using flexible metal conduit for protection against EMC/RFI environments.

Flight Systems Inc. 1901 Dove St. Newport Beach, CA 92660 714-833-9661 Product Line: Ground...

...EC) training systems. Scenario threat generators, simulation software, communications and radar jammers, aircraft modification and **flight** test programs.

Floating Point Systems 3601 SW Murray Blvd. BOX 23489 Portland, OR 97223 Roy...F. Sweeney 315-793-5311 Product Line: Tri-Service avionics from mission sensors to aircraft **flight** control systems; power generators to lasers. Field Offices/Divisions AESD MS 918 Utica, NY 11301...England H.E. Robinson 1-894-5511 Product Line: Submarine weaposn fire control systems; air **flight** missile and tropedo test systems; weapon simulators; visual display terminals; static frequency/inverters/converters and...

...and data modem, programmable communications controller, intercom systems, audio matrix switches and path panels.

Grumman **Data Systems** Corp. 1111 Stewart Ave. Bethpage, NY 11714 Tom Kane 516-575-5449 Product Line: Provide...

...advanced research studies and produces state-of-the-art information processing, communication satellite networks, terrestrial **data networks** /tracking, telemetry and C.sup.3.1 Aerospace, for worldwide information technology market. Field Offices:..902-466-7491 Product Line: Anti-submarine warfare systems: sonobuoys and bathythermographs, towed arrays. Ocean **data systems** data collection platforms and satellite transmitters, HF communications antennas and HF sounding systems. Field Offices...Attitude indicators, vertical and directional gyros, servo actuators, emergency power supplies, turn and slip indicators, **flight** directors, windshield heat controls, solid-state inverters, engine monitoring systems, HUDs and AHRS.

JFW Industries...R.P. Moores 201-945-3000 Product Line: Miniature high-frequency pressure transducers and accelerometers, **flight** -qualified pressure transducers, wind tunnel engine pressure probes, microprocessor-based solid state pressure monitors.

L...

...N. Coyle 613-820-9720 Product Line: Tacan navigation beacons, shipboard integrated communication system (SHINCOM), **flight** data recorders, crash position indicators.

Leitch Video Ltd. 10 Dyas Rd. Don Mills, Ontario M3B...Salato 703-552-3012 Product Line: Electro-optical sensors and laser communications equipment.

Litton Industries **Data Systems** Div. 8000 Woodley Ave. Van Nuys, CA 91409 818-902-4000 Product Line: Tactical communications...

...988-2191 Product Line: Aircraft modications and maintenance; electronic warfare systems integration and installation; trainers; **flight** data recorders; international aircraft programs; logistics support. Field Offices/Divisions Lockheed Support Systems, Inc. 1600...Alexandria, VA 22314 Dennis L. Regan 703-823-0300 Product Line: A fourth-generation intelligent **DBMS** with enhanced applications generator. Fully supports ad-hoc query/retreive. Pre-configured linkages, decision support...Product Line: UNIX-based, highly available 32-bit parallel computer family. Multi-user throughput for **database** management, software development, simulation, and C.sup.3.1 applications.

Sermed Inc. 10967 Via Frontera...

...and UHF, ground-based marine direction finders, ship and shore-based DF operator trainers, meteorological **data systems** , IR/electro-optical components and systems.

Shakespeare Co. Electronics and Fiberglass Div. P.O. Box...3014 N. Hayden Scottsdale, AZ 85251 602-994-1511 Product Line: Bearing-heading indicators for **flight** simulators and training. Engineering services, R&D reliability maintainability analysis, specifications and technical documentation.

SpecTran...large-scale real-time and industrial turnkey systems,

software engineering, communication systems, business applications and **data base** management systems.
System Research Labs, Inc. Electronic Warfare Center 2800 Indian Ripple Rd. Dayton, OH...electronics, HUD/HDD displays, optronics, laser rangefinder/designator pods, aircraft cooling and air conditioning systems, **flight** computers, civil aviation displays, simulator systems.
Thomson-CSF Electron Tube Div. 38 rue Vauthier - BP...

...Richard J. Coon, III 408-371-9400 Product Line: Development, integration and support of tactical **data systems** for and over-the-horizon targeting. Emphasis is placed on the development of software using... 926-2800 Product Line: ASW communications support passive/active countermeasures/expendables, telecommunications, threat/tactics simulation, **flight** testing, embedded computers, electronics systems integration, and communications jamming. Field Offices/Divisions Tracor Aerospace, Inc...

...N. Fort Myer Dr. Ste. 302 Arlington, VA 22209 Nick Judge 703-528-8551 Tracor **Flight** Systems Group P.O. Box 2400 Newport Beach, CA 92658-0268 Jim Stempson 714-833...

...3333 T.J. Electronics 8823 N. Industrial Rd. Peoria, IL 61615-1584 309-693-3344 **Flight** Connector 8823 N. Industrial Rd. Peoria, IL 61615-1584 309-693-3355 Celmark Engineering 8823...Washington, D.C. 20011 Bruce Crowley 202-882-8464 Product Line: Signal isolators, clocking distribution, **signal** level **conversion** , cable drivers and receivers.
Vibra-Metrics, Inc. 1014 Sherman Ave. Hamden, CT 06514 Tom Goldman...

10/3,K/34 (Item 21 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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02966907 SUPPLIER NUMBER: 04353267 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Army banks on Joint STARS for AirLand battle management.
Boutacoff, David A.
Defense Electronics, v18, p77(6)
Aug, 1986
ISSN: 0278-3479 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 3212 LINE COUNT: 00253

... development phase for the airborne segment is scheduled to last five years, with an engineering **flight** test planned for mid-1988. Production of the airborne system is expected to begin in...To accommodate the Army's large and varying number of C3I nodes, the Joint STARS **data base** will be distributed among the two-operator ground station modules (GSMs), with a GSM assigned...

...it to eliminate the electromagnetic signature,' he said.
In contrast, the Air Force scopes and **data base** will be centralized into an operations and control unit located aboard the E-8A. Processing...

...to establish normal peacetime levels of armored traffic flow; a change in normal patters could **signal** a **change** in Soviet operations or an imminent attack.
Ancestry
Joint STARS's lineage can be traced...distance down the range. In similar tests, surface-to-surface missiles were detected, tracked in **flight** and accurately guided to weapondispense points. Those tests involved T-16 and T-22 missiles...

10/3,K/35 (Item 22 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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02836803 SUPPLIER NUMBER: 04120853 (USE FORMAT 7 OR 9 FOR FULL TEXT)
1986 marketing directory and buyers' guide; valuable, easy reference to the products and services of defense electronics manufacturers.
Defense Electronics, v18, p71(62)
Feb, 1986
ISSN: 0278-3479 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 54719 LINE COUNT: 04883

... PMTs, RF power tubes, klystrons, Geiger-Mueller tubes, X-ray tubes, microchannel plates.

Ampex Corp.

Data Systems Div. 401 Broadway, MS 10-15 Redwood City, CA 94063 (415)367-2758 Field Offices...49-89-4313031 Product Line: The largest producer of airborne instruments. Manufacturing includes electromechanical and **flight** systems, air and ground CRT and medical displays, autopilots, and secure digital communication systems.

Astrosystems...P.O. Box 3271 Thousand Oaks, CA 91359 James Redwine (213)889-2911 Product Line: **Flight** test instrumentation including signal conditioning for frequency division multiplexing and time division multiplexing systems. Airborne...windows, vents and filters, TEMPEST testing, FCC testing, application engineering, shielding tapes and laminates.

Chorus **Data Systems** 6 Continental Blvd. Merrimack, NH 03054 Lisa Plourde (603)424-2900 Product Line: The PC...984-8848 Product Line: Microwave communications filter, coaxial, waveguide, preselectors, wavemeters, diplexers, resonant cavities.

Colorado **Data Systems** , Inc. 3301 W. Hampden Ave., Unit C Englewood, CO 80110 Louis Klahn (307)762-1640...voltage power supplies, high voltage transformers and isolation transformers, precision and high-voltage capacitors.

Delta **Data Systems** Corp. 1765 Business Center Dr. Reston, VA 22090 (703)450-7300 Field Offices/Divisions Federal...airborne radar; man-pack radar; IFF processing; C.sup.3 systems; VLF communications.

Eaton Corp. **Data Systems** Services Div. 5875 Green Valley Circle Culver City, CA 90230 (213)215-0853 Field Offices...819-1644 Inframetrics Inc. 12 Oak Park Dr. Bedford, MA 01730 (617)275-8990 Elbit **Data Systems** Ltd. P.O. Box 111 Windsor SLA 4UX, England (7535) 53216 Elbit S.A.R...Line: ECM systems, ESM systems, ECM/ESM receivers, RF subsystems, EW studies, analyses, simulation and **flight** test support, UMOP receivers, hgih resolution video bus systems.

Electrospace Systems, Inc. P.O. Box...Marcopulos (301) 428-6904 Product Line: Supplier of specialized electronic systems in communications and military **flight** hardward. Communication products include: time division multiple access (TDMA) systems, burst encryption units and fully engineered satellite earth stations systems. **Flight** hardware products include: advanced reconnaissance systems, stores management systems, data storage and transfer systems and...connector backshells, shielded interconnect systems using flexible metal conduit for protection against EMC-RFI environements.

Flight Systems, Inc. 1901 Dove St. Newport Beach, CA 92660 Scott R. Sowers (714) 833-9661...

...systems. Sophisticated dynamic scenario threat generators, simulation software, communications and radar jammers, aircraft modification and **flight** test programs.

Floating Point Systems, Inc. P.O. Box 23489 Portland, OR 97223 (503) 641...Borehamwood Hertsfordshire WD6 1RX, England Capt. Barrie Blakeley (+44) 1 953 2030 Field Offices/Divisions **Data Systems** Div. Andy J. Bell (+44) 1 906 6478 Commercial Products Div. Peter Lane (+44) 1...

...support for large-scale C3 systems, C.sup.3 systems, automated test/diagnostic systems, GESCAN **data base** search and message handling system, re-entry systems.

General Instrument Corp.

Govt. Systems Div. 600...Burnel Road Salisbury, Wiltshire, England 0722-28801 Product Line: Submarine weapon fire control systems. Air **flight**

missile and torpedo test systems. Weapon simulators. Visual display terminals. Static frequency inverters/converters and...

...111 Raven, Spacecraft, training devices, electronic equipment and subcontract, engineering, modification and overhaul services.

Grumman **Data Systems** Corp. 1111 Stewart Ave. Bethpage, NY 11714 (516)575-5449 Field Offices/Divisions 6862 Elm...Alain Weiss (3) 460.13.55 Product Line: Miniature high-frequency pressure transducers and accelerometers, **flight** -qualified pressure transducers, wind tunner engine pressure probes, microprocessor-based solid state pressure monitors.

Lacroix...installation, checkout, complete logistics support and training for international military and commercial clients.

Litton Industries,

Data Systems Div. 8000 Woodley Ave. Van Nuys, CA 91409 (818)902-4000 Field Offices/Divisions 490...

...DeMutis (215)622-1000 Product Line: Servo-assemblies for commercial and military aircraft and ships; **flight** instrumentation; digital and analog **signal** **conversion** and indicating equipment, including PPIs and digital-to-synchro converter. Shaft position encoders; synchros, and... ...Line: Aircraft modification and maintenance; electronic warfare systems installation; communication systems integration; trainers and flight **data** recorders; international aircraft facilities and programs.

Lockheed-California Co. P.O. Box 551 Burbank, CA...Loral Corp. 600 Third Ave. New York, NY 10016 (212)697-1105 Field Offices/Divisions **Data Systems** 9020 Balboa Ave San Diego, CA 92123 William Kirk (619)297-0411 Electronic Systems Ridge...Box 516 St. Louis, MO 63166 (314)233-7994 Field Offices/Divisions McDonnell Aircraft Co., **Flight** Simulation (314)232-5151 Product Line: Manufacturer of combat and transport aircraft; spacecraft and missile...Pryor (904)863-6268 Field Offices/Divisions Radar Systems William T. Pryor (904)863-6218 **Data Systems** F.R. Andrews (904)863-6238 Vertical Launching System Div. Len Mattox (904)244-9662...David Hwy. Hayes Blvdg. #1006 Washington, DC J.P. Thompson (703)920-3644 Product Line: **Signal** data **converters** and control systems, submarine navigation and attack plotters, militarized color graphic display systems, satellite command...

...CA 95051 C.A. Ward (408)247-1355 Product Line: EW simulation systems for operational **flight** trainers and classroom training. Digital, video, and RF generation across the full frequency spectrum.

Philips...Systems Ltd. 0705 486391 Product Line: V/UHF airborne communications, radio relay and telemetry links, **flight** data recording, radar altimeters, IFF/SSR airborne/shipborne/ground. Major UK contributor, EW and weapon...CA (213)834-2611 Product Line: Designs and manufactures a complete line of communications, navigation, **flight** control, cockpit displays, integrated avionics systems and advanced avionics test equipment for military aircraft.

Rockwell...tape drive, 8-inch 80MB and 14-inc 300MB Winchester drive, and security management system. **Data base** management systems, mil-sec. computers.

Scientific-Atlanta, Inc. Washington Business Park 5100-J Philadelphia Way...

...line of military and commercial computers. Data bus couplers, space qualified memories and computers and **flight** test instrumentation.

Sedco Systems, Inc.

A Raytheon Company 65 Marcus Dr. Melville, NY 11747 (516...and UHF, ground-based. Marine direction finders, ship and shore-based DF operator trainers. Meteorological **data systems** , IR/electro-optical components and systems.

Severe Environment Systems

Company (SESCO) 20151 Nordhoff St. Chatsworth...

...systems, tactical communications systems for the field army, militarized computer peripherals.

The Singer Co.

Link **flight** Simulation Div. Corporate Drive Binghamton, NY 13902

(607)772-3011 Field Offices/Divisions 1077 E...

...713)280-4002 1725 Jefferson Davis Hwy. Arlington, VA 22202 (703)379-5850 Product Line: **Flight** , mission and spacecraft simulators, digital image generations, part task trainers, fighting vehicle simulators, research simulators...3014 N. Hayden Scottsdale, AZ 85251 (602)994-1511 Product Line: Bearing heading indicators for **flight** simulators and training. Engineering services, R&D reliability maintainability analysis, specifications, and technical documentation.

SpecTran...large scale real time and industrial turnkey systems, software engineering, communication systems, business applications and **data base** management systems.

Systematics General Corp. 1606 Old Ox Rd. Sterling, VA 22170 (703)471-2200...Hwy., #901 Arlington, VA 22202 Sid Rowlett Product Line: Development, integration and support of tactical **data systems** for C.sup.3.I and over-the-horizon targeting. Emphasis is placed on development ...

...Countermeasures 6500 Tracor Ln. Austin, TX 78725-2070 Virgil Simmons (512)929-2800, ext. 6262 **Flight** Systems Group P.O. Box 2400 Newport Beach, CA 92658-0268 John Guthrie/Bill Weiss...

...8551 Product Line: ASW/communications support, passive/active countermeasures, tactical/strategic telecommunications, threat/tactics simulation, **flight** testing, embedded computers, electronics systems integration, and communications jamming.

Tracor MBA P.O. Box 196...Pl. N.W. Washington, DC 20011 (202)882-8464 Product Line: Signal isolators, clocking distribution, **signal** level **conversion** , cable drivers and receivers.

Vibra-Metrics, Inc. 1014 Sherman Ave. Hamden, CT 06514 S.A...

10/3,K/36 (Item 23 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2003 The Gale Group. All rts. reserv.

02319805 SUPPLIER NUMBER: 03628292 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Seventh annual marketing directory and buyers' guide; a valuable, easy reference guide to defense electronics manufacturers, products and services. (illustration)
Defense Electronics, v17, p58(84)
Feb, 1985
DOCUMENT TYPE: illustration ISSN: 0278-3479 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT
WORD COUNT: 49994 LINE COUNT: 04244

... camera tubes, discrete semicondustors, custom hybrids and leadless hybrid devices, charge coupled devices. Ampex Corp. **Data Systems** Div. 401 Broadway, MS 10-15 Redwood City, CA 94063 Karen Calderone 415-367-2758 ...49-89-4313031

Product Line: The largest producer of airborne instruments. Manufacturing includes electromechanical and **flight** systems, air and ground CRT and medical displays, autopilots, and secure digital communication systems. ATACS...5100 State Rd. Drexel Hill, PA 19026 Russ Philipp 215-622-1718

Product Line: Navigational **flight** instruments interface boxes and electromechanical actuators for military aircraft. Cober Electronics, Inc. PO Box 10032...Houston Rd. Warner Robins, GA 31099 912-922-6616

Product Line: Antennas, airborne VHF communication, **flight** insutruments. Test equipment: ground support, signal measuring, telecommunications. Printed circuits: ceramic, double-sided, laminates, multilayer single-sided. Airborne radar. RF instruments: automated test systems, frequency synthesizers and signal generators. Colorado **Data Systems** , Inc. 3301 W. Hampden Ave., Unit C Englewood, CO 0110 Louis J. Klahn, Jr. 303...computer systems, guidance and navigation systems and armament systems for military and space applications. Delta **Data Systems**

Corp. 1765 Business Center Dr. Reston, Va 22090 Robert A. Wainer 703-450-7300 Field...and telcom, gate arrays, CCD imaging devices, transistor and diodes, hnybrids and microprocessors. Fairchild Weston **Data Systems** Div. PO Box 3041 Sarasota, FL 33578 G. Prozzo 813-371-0811

Product Line: Instrumentation...solid-state imaging systems; C.sup.3 CM systems; weapon fuzing systems and payloads; telemetry **data systems** & recorders. Farrand Controls 99 Wall St. Valhalla, NY 10595 914-761-2600 Inductosyn International Corp...

...optics, fire-control instrumentation, bore-sight collinators, periscope, telescopes, sighting devices and infra-red viewers. **Flight** Systems, Inc. 1901 Dove St. Newport BEach, CA 92656-0268 714-833-9661

Product Line: **Flight** Systems provides: wide band 05.18 GHz multiple radar simulators; digitally controlled communications and radar jammers; full **flight** test services for systems and components. Floating Point Systems, Inc. PO Box 23489 Portland, OR...military communication and observation satellites and sutomated test/diagnostic systems; information management systems; the GESCAN **data base** search and message handling system; and re-entry systems. General Instrument Corp. Govt. Systems Div... Salisbury, Wiltshire, England J. Beard 0722-28801

Product Line: Submarine weapon fire control systems. air **flight** missile and torpedo test systems. Weapon simulators. Visual display terminals. Static frequency inverters/converters and...

...111 Raven, Spacecraft, training devices, electronic equipment and subcontract, engineering, modification and overthaul services. Grumman **Data Systems** Corp. 1111 Stewart Ave. Bethpage, NY 11714 Joseph Stump 516-575-5449 Field Offices/Divisions...Space & Communications Gp. PO Box 92919 Los Angeles, CA 90009 213-648-4676 Electro-Optical & **Data Systems** Gp. PO Box 902 El Segundo, CA 90245 213-616-7006 Missile Systems Gp. 8433 ...U. Geva 3-364144

Product Line: Developer and manufacturer of military and civil aircraft and **flight** simulators; antiship and anti-aircraft missiles; missile patrol boats; mini-RPV ystems; airborne, ATC, surface...Alain Weiss 3-460-13-55

Product Line: Miniature high-frequency pressure transducers and accelerometers, **flight** -qualified pressure transducers, wind tunnel engine pressure probes, microprocessor based solid state pressure monitors. L... installation, checkout, complete logistics support and training for international military and commercial clients. Litton Industries, **Data Systems** Div. 8000 Woodley Ave. Van Nuys, CA 91409 213-781-8211 Field Offices/Divisions 490...

...Demutis 215-622-1000

Product Line: Servo assemblies for commercial and military aircraft and ships; **flight** instrumentation; digital and analog **signal conversion** and indicating equipment, including PPIs and digital-to-synchro converter. Shaft position encoders, synchros, and...

...Product Line: Aircraft modification and maintenance; electronic warfare systems installation; communication systems integration; trainers and **flight** data recorders; international aircraft facilities and programs. Lockheed-California Co., Inc. 2055 Hollywood Way Burbank...5555 Randtron Systems 130 Constitution Dr. Menlo Park, CA 94025 Ted Tucker 415-326-9500 **Data Systems** /Conic 9020 Balboa Ave. San Diego, CA 92123 Bill Kirk 619-279-0411 Instrumentation 8401...St. Louis, MO 63166 James McDonnell 314-232-0232 Field Offices/Divisions McDonnell Aircraft Co., **Flight** Simulation PO Box 516 St. Louis, MO 63166 Bill Body 314-233-7994 McDonnell Douglas...

...645 Anchors St. Ft Walton Beach, FL 32548 904-863-6218 Field Offices/Divisions Digital **Data Systems** 645 Anchors St. Ft. Walton Beach, FL 32548 904-863-6238 Vertical Launching Systems Div...703-920-3644 Aqidneck Industrial Park Middletown, RI 02840 401-849-8003

Product Line: Military **signal** data **converters** ; secure voice wide band encryption equipments; Militarized high resolution color raster

graphics display systems for...Raines 213-834-2611
Product Line: Designs and manufactures a complete line of communications, navigation, **flight** control, cockpit displays, integrated avionics systems and advanced avionics test equipment for military aircraft. Rockwell...electronic countermeasures systems: communications systems, data processing, displays and components, simulators and trainers (communications, EW, **flight** training and tactical). Sanders Associates, Inc. Daniel Webster Hwy. S. Nashua, NH 03061 603-885...tape drive, 8-inch 80MB and 14-inch 300MB Winchester drive, and security management system. **Data base** management systems, mil-sec. computers. Scientific-Atlanta, Inc. Washington Business Park 5100-J Philadelphia Way...

...Vincent Liardet 021-29-98-73
Product Line: Aviation and marine direction finder systems; meteorological **data systems** , infrared electro-optical equipment; and railroad defect detection and information systems. Shakespeare Co. PO Box ...systems; tactical communications systems for the field army; militarized computer peripherals. The Singer Co. Link **Flight** Simulation Div. Binghamton, NY 13902 G.J. Stred 607-772-3011 Field Offices/Divisions 1077 ...

...1725 Jefferson Davis Hwy. Arlington, VA 22202 J.A. Todd 703-379-5850
Product Line: **Flight** , mission and spacecraft simulators, digital image generations, part task trainers, fighting vehicle simulators, research simulators...

...3014 N. Hayden Scottsdale, AZ 85251 602-994-1511
Product Line: Bearing heading indicators for **flight** simulators and training. Engineering services, R&D reliability ...Tracor MBA Bollinger Canyon Rd. San Ramon, CA 94583 Martin C. Hughes 415-837-7201 **Flight** Systems, Inc. 1901 Dove St. Newport Beach, CA 92658-0268 John Guthrie/Bill Weiss 714...

...703-528-8551
Product Line: Countermeasures systems/expendables, tactical/strategic telecommunications systems, threat/tactics simulation, **flight** testing, and computer emulators/hermetic chip carriers, airborne navigation systems. Tracor MBA PO Box 196...Pi. N.W. Washington, DC 20011 202-882-8464
Product Line: Signal isolators, clocking distribution, **signal** level **conversion** , cable drivers and receivers. vibra-Metrics, Inc. 385 Putnam Ave. Hamden , CT 06517 203-288...

10/3,K/37 (Item 24 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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02166811 SUPPLIER NUMBER: 03335479 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Bubbles bursting with military potential.
Fundakowski, Sally Wier
Defense Electronics, v16, p83(4)
July, 1984
ISSN: 0278-3479 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 2269 LINE COUNT: 00196

... fully militarized cassette to provide transportable, secure mass storage. Another application is test equipment for **flight** line and other military systems, such as the AN/USM-392B, a stand-alone, portable...

...military programs, including:
Milstar--Extremely High Frequency Communications Satellite System
AFATDS--Advanced Field Artillery Tactical **Data System**
MLRS--Multiple Launch Rocket System
ULCS--Unit-Level Circuit Switch
MCF--Military Computer Family
STE...

...write operation at temperature extremes, this current pulse must be adjusted. Second, the bubble detector **signal** output **changes** across wide temperature ranges. The read operation consists of sensing bubbles as they pass under...

10/3,K/38 (Item 25 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2003 The Gale Group. All rts. reserv.

01882219 SUPPLIER NUMBER: 02994638 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Advanced digital combat control systems for submarines.
Bussert, James C.
Defense Electronics, v15, p64(8)
Nov, 1983
ISSN: 0278-3479 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 2410 LINE COUNT: 00212

... between the combat information center equipment and the weapons. These options include torpedo tube selection, **signal conversion** of weapon orders, and weapon readback data. In addition, the converter/processor contains the display...

...the combat control consoles. Input data from all sensors is automatically entered in the combat **data base** for processing and recording for future analysis.

Data selected from various sensors is used to...can be simultaneously engaged with multiple wire-guided weapons. The system also provides for air- **flight** weapons salvos. The weapon aimpoint algorithms allow for varying tactical and environmental conditions such as...
...use the Motorola 68881 in military production units.

The software partitioning method and replicated combat **data base** architectural features also contribute to simplifying software design and maintenance. The software has been partitioned...

...in each processor is simple and can be easily modified for additional functions. The combat **data base** , which contains all the system data required by more than once processor, is replicated in...

13/3,K/1 (Item 1 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2003 The Gale Group. All rts. reserv.

02032709 SUPPLIER NUMBER: 19030805 (USE FORMAT 7 OR 9 FOR FULL TEXT)
The object database goes online: can the Internet help the ODBMS gain acceptance as the undisputed master of complex data management? (special supplement: Internet Systems) (Technology Information)
King, Nelson
DBMS, v10, n1, pS18(4)
Jan, 1997
ISSN: 1041-5173 LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 3304 LINE COUNT: 00266

Some people feel the match between the Internet and object **database** management systems (0DBMSs) **signals** a **change** in epochs for data management. Others say, no way, the Internet will support many kinds...

13/3,K/2 (Item 2 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2003 The Gale Group. All rts. reserv.

01452652 SUPPLIER NUMBER: 11363377 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Finding your way. (use of the X.500 directory services standard)
Vereen, Lindsey
LAN Magazine, v6, n10, pS43(4)
Oct, 1991
ISSN: 0898-0012 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 2951 LINE COUNT: 00239

... pattern. It maintains an updated database of all StreetTalk names, listens for network events that **signal changes** to the name **database** , and removes changed or deleted names.
As good as it is, however, StreetTalk only works...

13/3,K/3 (Item 1 from file: 624)
DIALOG(R)File 624:McGraw-Hill Publications
(c) 2003 McGraw-Hill Co. Inc. All rts. reserv.

0627885
Close-range photogrammetry documents as-built structures: Ability to digitize the photographic record to within an eighth of an inch avoids disruption of operations
POWER December, 1994; Pg 44; Vol. 138, No. 12
Journal Code: POW ISSN: 0032-5929
Word Count: 1,216 *Full text available in Formats 5, 7 and 9*

BYLINE:
Paul Emilius Jr, GEOD Corp

Edited by William O'Keefe

TEXT:
... line graphic displays to aid transfer of data collected from the photos directly into a **digital data base** , **convertible** into the desired user format. The digitized record is the basis for planning work in...

13/3,K/4 (Item 1 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2003 The Gale Group. All rts. reserv.

01261150 Supplier Number: 41352678 (USE FORMAT 7 FOR FULLTEXT)
CANDLE, CDB SOFTWARE ALLIANCE: SIGN OF THE TIMES

Report on IBM, v7, n22, pN/A
May 28, 1990
Language: English Record Type: Fulltext
Document Type: Newsletter; Trade
Word Count: 611

... vendors have to expand their roles to offer customers more "life cycle" products.
It also **signals** the **changing** role of the DB2 **database** administrator (DBA) from an emphasis on performance monitoring to designing applications and overall DB2 management...

13/3,K/5 (Item 1 from file: 621)
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)
(c) 2003 The Gale Group. All rts. reserv.

01123630 Supplier Number: 40972002 (USE FORMAT 7 FOR FULLTEXT)
BANYAN INTRODUCES SECOND GENERATION OF INDUSTRY-LEADING STREETTALK GLOBAL DIRECTORY SERVICE WITH VINES RELEASE 4.0
News Release, p1
Oct 6, 1989
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 1037

... capabilities, STDA maintains an updated database of all StreetTalk names, listens for network events that **signal** **changes** to this name **database** , and dynamically removes changed or deleted names.

In line with Banyan's commitment to support...

13/3,K/6 (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2003 The Gale Group. All rts. reserv.

04904718 Supplier Number: 47212411 (USE FORMAT 7 FOR FULLTEXT)
Direct Line skids for the database line
Conley, Clare
Precision Marketing, p1
March 17, 1997
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 215

(USE FORMAT 7 FOR FULLTEXT)
TEXT:
DIRECT LINE Insurance is searching for its first head of **database** marketing in a move which **signals** a **change** in emphasis in marketing strategy.

13/3,K/7 (Item 1 from file: 160)
DIALOG(R)File 160:Gale Group PROMT(R)
(c) 1999 The Gale Group. All rts. reserv.

00544515
Intel Corp's Commercial Systems Div (Austin, Tex) has announced major improvements to the System 2000 data base management system (DBMS) it acquired in 1979 when it took over MRI Systems Corp.
Computerworld March 17, 1980 p. 5,6

To **signal** the **changes** , the **DBMS** has been renamed System 2000/80. The Integrated Data Dictionary (IDD) is the key to...